

SPECIAL  
**14<sup>TH</sup>**  
ANNIVERSARY  
ISSUE

GROW ROOMS FOR UNDER \$50

# HIGH TIMES

JUNE 1988

**\$3.95**  
CANADA \$4.50

## ELECTRONIC DRUGS

SAFE, LEGAL,

AVAILABLE NOW!

**HEAVY  
METAL  
HISTORY**

**KOH  
SAMUI**  
SEX AND DRUGS  
IN THAILAND





# Indoor Sun

## ENERGY EFFICIENT GROW LIGHTS

### METAL HALIDE—(balanced growing spectrum)

All systems include assembled ballast, bulb, reflector, 15' lamp cord & 8' power cord.

- ★ 1000 watt DELUXE—Your choice of one of four great reflectors:  
46" Polished aluminum super reflective hood (white available on request). □ Our new 20" low profile (only 7" high) horizontal reflector with a space-age polished aluminum reflective panel (puts out 45% more light than conventional reflectors). □ 48" parabolic, high output reflective hood. □ 20" adjustable white enamel reflector.  
Each deluxe unit comes with a super quiet ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 110,000 lumen—12,000 hr. bulb ..... \$184.50  
To upgrade to our 125,000 lumen—12,000 hr. Horticultural Superbulb ..... Add \$15.00
- ★ 1000 watt STANDARD—18" high temp. white enamel reflector. Ventilated ballast box. System includes a 110,000 lumen—12,000 hr. bulb ..... \$167.50  
To upgrade to our 125,000 lumen—12,000 hr. Horticultural Superbulb ..... Add \$15.00
- ★ 1000 watt ECONOMY—2'x3' polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 110,000 lumen—12,000 hr. bulb ..... \$144.50  
To upgrade to our 125,000 lumen—12,000 hr. Horticultural Superbulb ..... Add \$15.00
- ★ 400 watt DELUXE—14" high temp. white enamel reflector. Ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 34,000 lumen—20,000 hr. bulb ..... \$134.50  
To upgrade to our 40,000 lumen—20,000 hr. Horticultural Superbulb ..... Add \$10.00
- ★ 400 watt STANDARD—14" high temp. white enamel reflector. Ventilated ballast box. System includes a 34,000 lumen—20,000 hr. bulb ..... \$124.50  
To upgrade to our 40,000 lumen—20,000 hr. Horticultural Superbulb ..... Add \$10.00
- ★ 400 watt ECONOMY—2'x3' polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 34,000 lumen—20,000 hr. bulb ..... \$109.50  
To upgrade to our 40,000 lumen—20,000 hr. Horticultural Superbulb ..... Add \$10.00
- ★ 175 watt MINI-MIGHT METAL HALIDE—15" reflector with self-contained ballast. 15,000 lumen—20,000 hr. bulb (only 18¢/day to operate) ..... \$99.00

### HIGH PRESSURE SODIUM—(red orange spectrum)

Completely assembled. All systems include a covered ventilated ballast, bulb, reflector, 15' lamp cord and 8' power cord.

- ★ 1000 watt DELUXE—Your choice of one of four great reflectors (5 KV pulse rated socket included): □ —46" Polished aluminum super reflective hood (white available on request) □ —Our new 20" low profile (only 7" high) horizontal reflector with a space-age polished aluminum reflective panel (puts out 45% more light than conventional reflectors) □ —48" parabolic, high output reflective hood □ —20" adjustable white enamel reflector □ System includes a 140,000 lumen—24,000 hr. Sodium bulb ..... \$269.50
- ★ 400 watt DELUXE—14" high temp. white enamel reflector. Includes 50,000 lumen—24,000 hr. Sodium bulb ..... \$189.50
- ★ MINI-MIGHT GROW LIGHT—Our compact powerful (16,000 lumens) grow light employs a highly efficient High Pressure Sodium lamp (3 year bulb life) and a self-contained Transformer-Ignitor. Costs only 15¢ a day (18 hours on) or about \$4.50/month to operate. 15" reflector—good for 3'x3' area. Sale priced at \$99.00+\$5.00 shipping, anywhere in U.S.A. .... \$99.00

### LOW PRESSURE SODIUM—(our most efficient light)

- ★ 180 watts produce 33,000 lumens. Great for flowering. Excellent for side light. Deluxe fixture. Ventilated ballast box ..... \$195.00

### ACCESSORIES:

Replacement light bulbs available for all our systems at our low everyday prices.

- ★ High Pressure Sodium Conversion Bulbs that work in metal halide ballasts.  
1000 watt—24,000 hr. .... \$139.00 400 watt—24,000 hr. .... \$69.00
  - ★ 15 amp Paragon timer (works on all our systems) ..... \$14.95
  - ★ CO<sub>2</sub> Regulator/Distributor —Maintains CO<sub>2</sub> at a constant level while the light is on to promote up to 25% increase in growth. For growing areas 25 sq. ft. to 1000 sq. ft. Includes all gauges and distribution lines. Plugs into your light's timer (tank not included) ..... Sale Priced \$139.00
  - ★ Solar Shuttle™ Track—moves your lamp quietly and efficiently back and forth above your plants on a 6-foot track in 40-minute cycles increasing the coverage of your lamp ..... \$99.00
  - ★ Solar Shuttle™ Extender—adds another 6-foot track to the end of your Solar Shuttle™ so you can run two lights off of one shuttle ..... \$39.95
- Grow and Bloom Nutrient in granular and liquid form available on request.



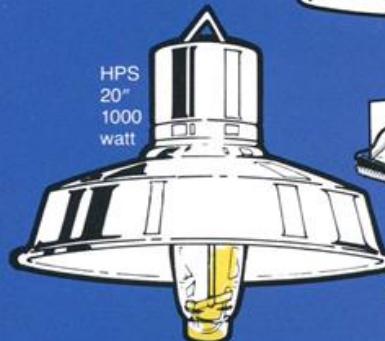
46" Super Reflective Aluminum Hood



20" Horizontal Super Reflective Hood



MH 14" 400 watt



HPS 20" 1000 watt



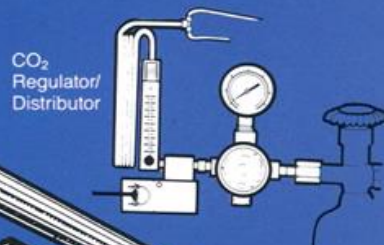
MH Deluxe Ballast



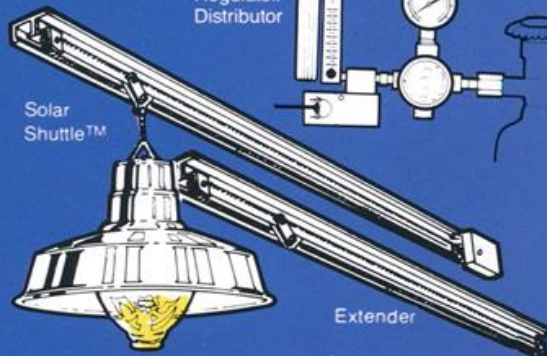
Mini Might Grow Light



LPS 180 watt



CO<sub>2</sub> Regulator/Distributor



Solar Shuttle™

Extender

ONE YEAR PARTS & LABOR GUARANTEE • 30 DAY MONEY BACK GUARANTEE • MOST ORDERS SHIPPED IN 24 HOURS  
C.O.D. ORDERS WELCOME • NO DEPOSIT REQUIRED  
QUANTITY PRICES AVAILABLE • CALL FOR FREE CATALOG.



**ENERGY SAVERS UNLIMITED, INC.**

22138 SOUTH VERMONT AVE. #C, TORRANCE, CA 90502

Toll Free Outside California (800) 421-2994 In California Call Toll Free (800) 538-3400



Prices do not include shipping



**GET THINGS  
GOING WITH  
BEFORE!**



# FASTONES

**STIMULANTS  
DIET AIDS  
SLEEPING AIDS**

**LOWEST PRICES ANYWHERE  
WE WILL MEET OR BEAT ANY  
REASONABLE PRICES BY 10%  
ORDERS SHIPPED IN 24 HOURS  
100% GUARANTEE**

**NOT  
SURE?  
SAMPLE  
PACK**

**MAXI PACK**  
1000 TABLETS  
& CAPSULES  
TOTAL/10 TYPES  
\$42.50  
#26

**MINI PACK**  
500 TABLETS &  
CAPSULES  
TOTAL/5 TYPES  
\$22.50  
#31  
INGREDIENTS MAY VARY

**AFTER!**



**EXTRA  
STRENGTH**

**CALL  
(813) 527-9977**

**PAYMENT:**

- CHARGE CARD (\$10 min.)
  - MONEY ORDER
  - PERSONAL CHECK (MUST BE BANK PRINTED WITH THE SHIP TO ADDRESS, ACCOUNT MUST BE 6 MONTHS OLD, NO CHECKS OVER \$50.00, PAYMENT TO 20TH CENTURY DISTRIBUTORS)
  - C.O.D. (CASH ON DELIVERY) (PHONE IN ONLY) \$10.00 min.
  - ALL ORDERS IN US FUNDS
- Offers subject to change without notice. Take only as directed. Read all package statements, no sales to minors or where prohibited by law. The advertised products have various levels of non-controlled ingredients. O.T.C.'s Not to be Mixed with Alcohol.

**NOTE**

Our products bear our trademark. They cannot be confused with any other product on the market. Any attempts to offer these products for sale as a controlled substance or prescription drug may be a crime. This may result in criminal prosecution. Compliance with any law is the purchaser's responsibility.

**FAST ONES™**  
"Super Strength"

**SPECIAL PRICE**  
1000 | 100  
\$30.00 | \$6.50

FASTONES

"FREE SAMPLES"  
CODE  
#30  
350 MGS CAFFEINE

**FAST ONES** FIGHTS THAT DROWSY  
FEELING BY IMPROVING  
YOUR STAMINA,  
COORDINATION,  
CONCENTRATION!

**FAST ONES** NEVER LETS YOU MISS  
THOSE SPECIAL MOMENTS!

**FAST ONES** GIVES YOU EXTRA STAMINA  
TO LOSE THOSE UNWANTED  
POUNDS AND INCHES THAT  
MAKE YOU FEEL SO  
UNATTRACTIVE AND  
UNDESIRABLE!

**FAST ONES** LETS YOU LIVE A MORE  
EXPERIENCING LIFE!

CHOOSE FROM A WIDE VARIETY TO GET YOUR  
EXACT TYPE AND STRENGTH YOU PREFER.  
THAT'S SOMETHING STORES CAN'T DO!

**STRENGTH  
MEDIUM**

1000 | 100  
\$22.50 | \$6.50  
CODE #1  
250 MGS CAFFEINE



1000 | 100  
\$22.50 | \$6.50  
CODE #5  
225 MGS CAFFEINE



**MILD  
(THIN)**

1000 | 100  
\$20.95 | \$6.50  
CODE #13  
200 MGS CAFFEINE



**CLEAR UPS  
(THIN)**

1000 | 100  
\$17.95 | \$6.50  
CODE #9  
85 MGS CAFFEINE



**SURE CURE II  
DIET AID**  
APPETITE SUPPRESSANT



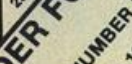
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75 MGS P.P.A. (TIME RELEASED)



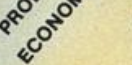
50 MGS  
DIPHENHYDRAMINE  
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**NIGHTY NIGHT**

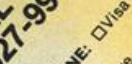
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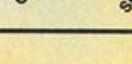
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# THE ULTIMATE GROWING SYSTEM

## Starts with the AQUAFARM™ modular system.



An expandable hydro system that allows you to start with a single module then add up to as many as 12. The unique AIRFLO™ pumping system creates growth and yield faster than any other modular system on the market. It is completely automatic and virtually

problem free. Beware of imitations, they are not a genuine AQUAFARM.

Each system includes: GROROX™ growing medium, AIRFLO pumping system, General Hydroponics grow and bloom nutrients, pH test kit and complete instructions.

Priced at: single \$58.00, four modules \$198.00, six modules \$295.00, eight modules \$389.00, ten modules \$450.00 and 12 modules \$530.00. (Controller included in groups of four, six, eight, ten and twelve module systems.)

## Introducing the AQUAFARM AEROFLO™ system.

Diamond Lights and General Hydroponics are proud to offer aeroponic technology to the home grower. The AEROFLO

system is the most advanced hydroponic growing system available in the world today! It has demonstrated extraordinary results in cloning and regenerating plants from cuttings. This system is capable of growing 24 clones to maturity in 6 weeks using the "Sea of Green Method."

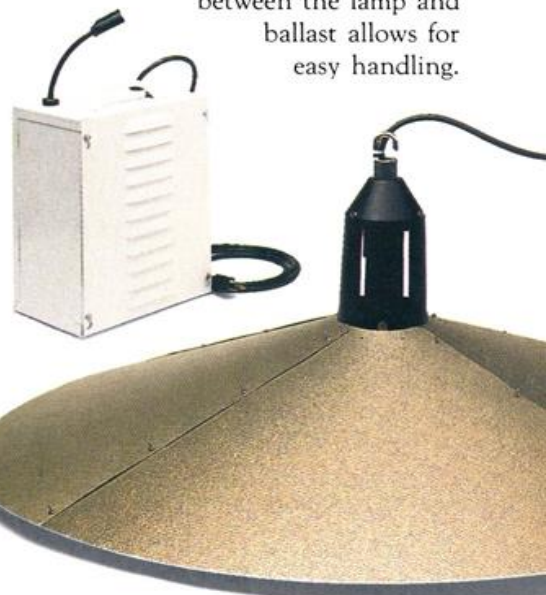
Each system includes: Rockwool growing medium, AIRFLO pumping system, General Hydroponics grow and bloom nutrients, pH test kit and complete instructions. Priced at: \$289.00.

## Top it off with the best lighting systems in the business.

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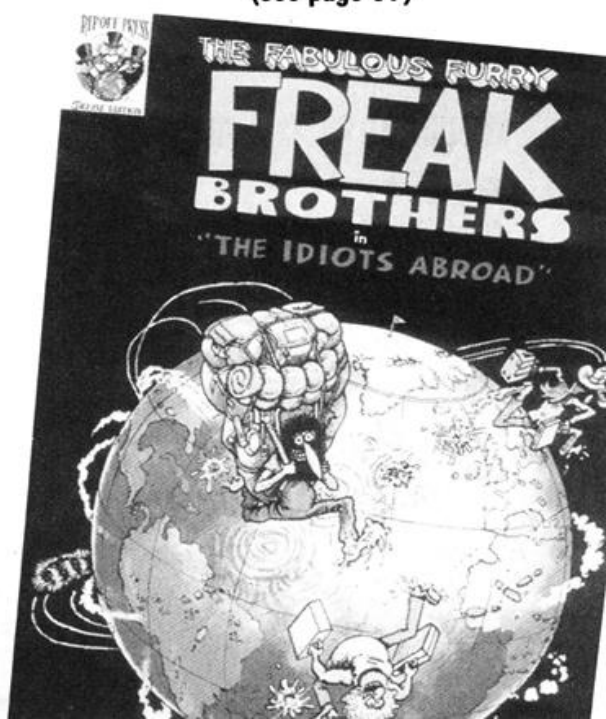
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Andre Grossmann;

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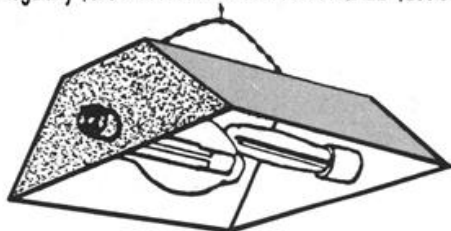
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# PAGE SIX

When cocaine and heroin were first introduced to the public, they were hailed as chemical solutions to problems like alcoholism and drug addiction. Cocaine proselytes, such as Sigmund Freud, thought the drug might hold the key to unlocking the mysteries of the human brain.

Now the latest form of mind stimulation is making its appearance—electronic drugs. Extravagant claims are being made on their behalf—euphoric ecstasy, mind expansion, and cures for all ills from phobias to addictions. Whether they create a new breed of superhumans, another breed of addicts, or fade away as just another fad, we felt they deserved coverage. Certainly, the idea of buying a machine and pressing a button to get high is intriguing. Whether these machines eventually deliver the goods or not is yet to be seen.

In other news, HIGH TIMES is proudly celebrating our fourteenth anniversary. Against all odds, HIGH TIMES has continued to publish successfully. As usual, this says more for you readers than for anything we've accomplished—it's you who have kept HIGH TIMES alive, despite the best efforts of many to close it down.

To mark the event, we're running a piece by James Marshall on the late, great, Detroit rock scene. The music of the MC5 was as much an inspiration for the original publication of HIGH TIMES as marijuana itself. The MC5 represented marijuana politics, revolution, and rock 'n' roll in a way that no one seems able to understand or appreciate anymore (including the record collectors who have kept interest in the band alive). It's worth remembering that their music was successfully repressed by music industry reactionaries, narrow-minded rock critics, and apathetic, dull-witted rock fans mellowing out to the sounds of the Beatles and other "soft-rock" groups.

It would be nice to think that everything's changed, and that rock fans would be ready for a voice of dissent or a cry for revolution. But when HIGH TIMES gets letters telling us to "Dump James Marshall," we figure nothing has changed.

The MC5



**JOHN  
HOLMSTROM**

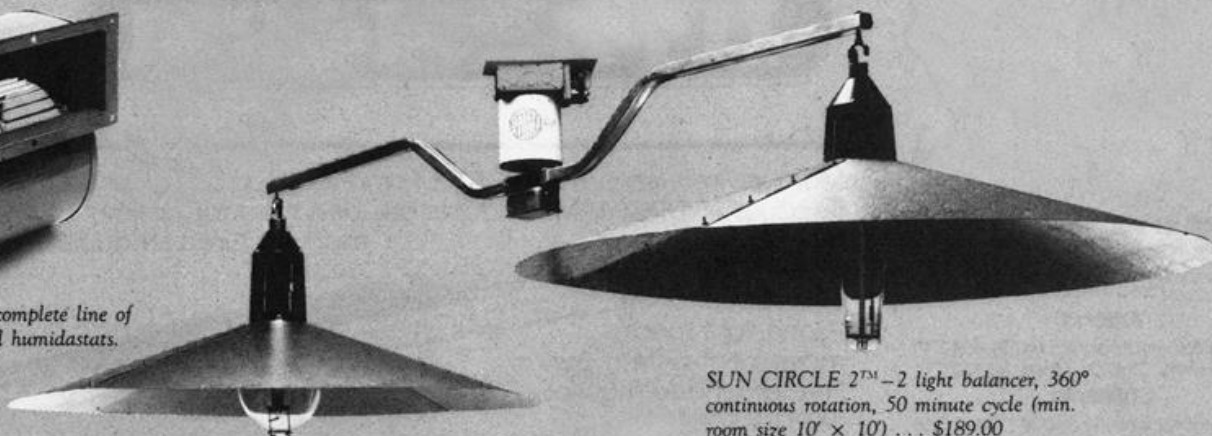
John Holmstrom  
Executive Editor



# DIAMOND LIGHTS

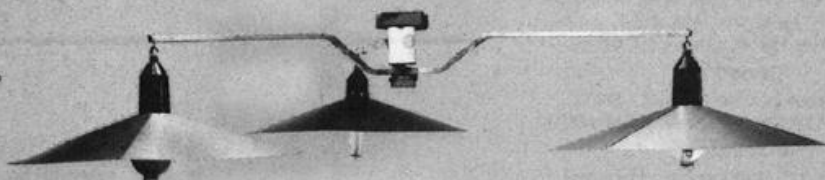


See our catalog for the complete line of blowers, thermostats and humidistats.



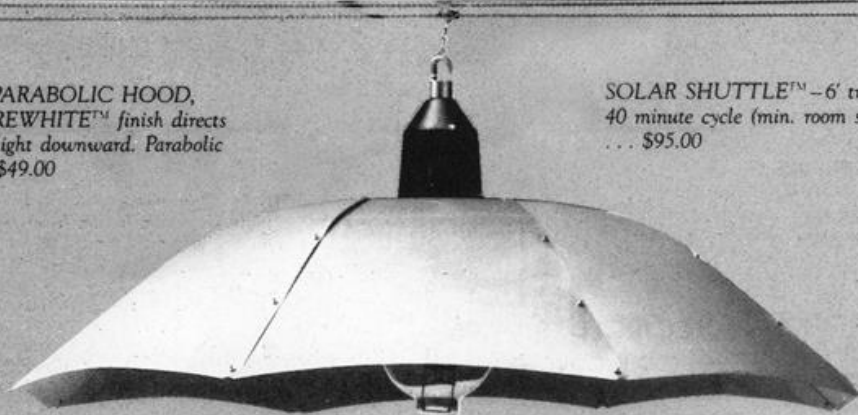
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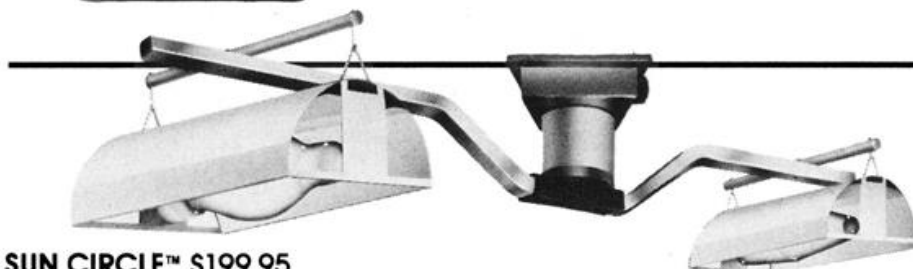
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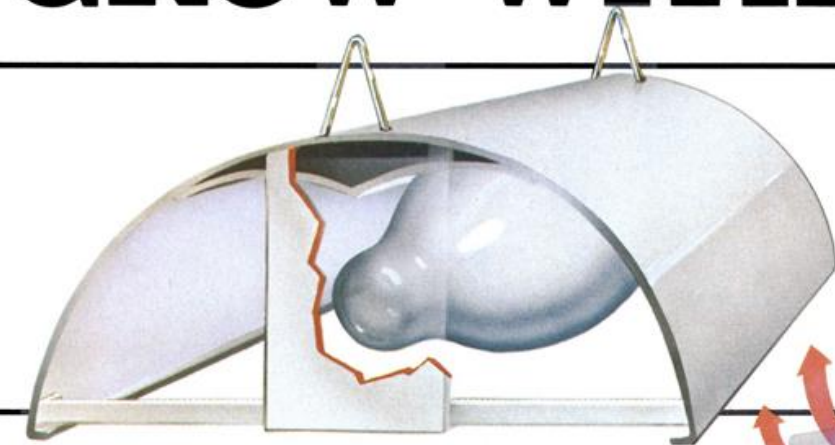
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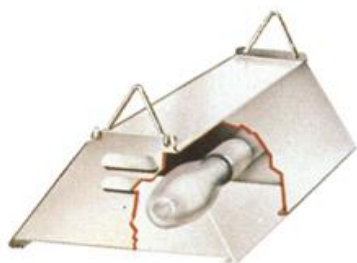


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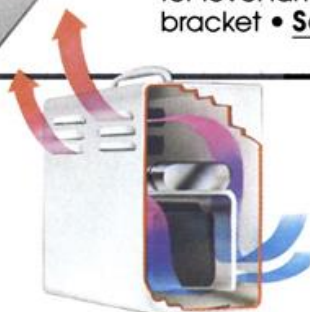
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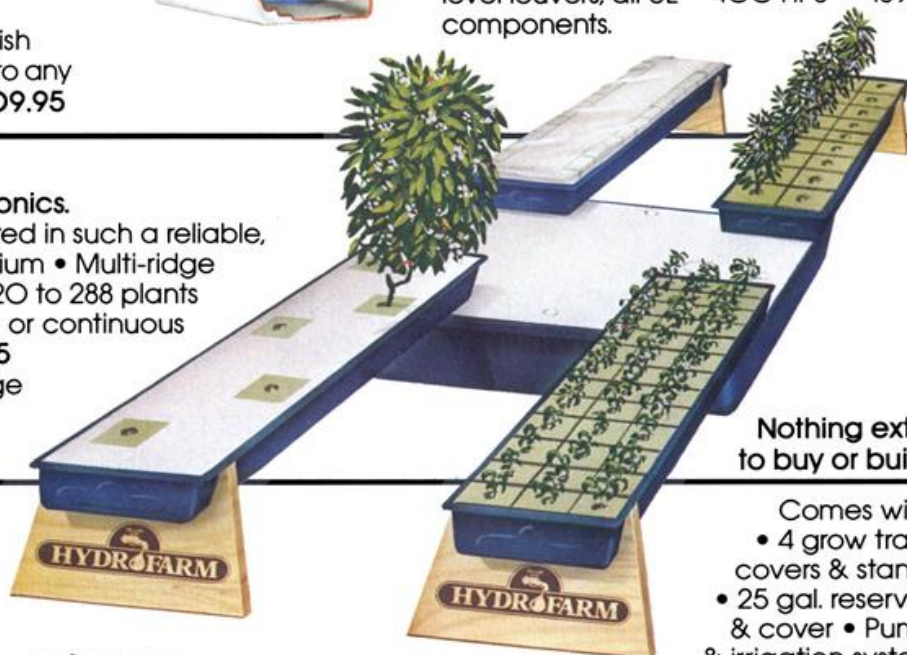
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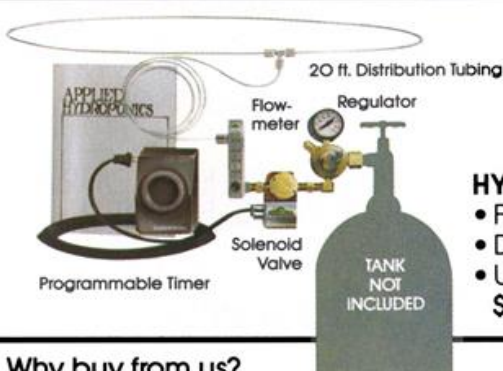
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## BALLASTS

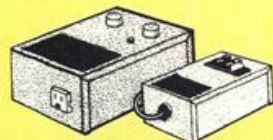
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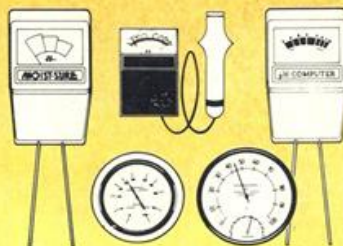


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Squirrel Cage-525 CFM	89.95
Squirrel Cage-960 CFM	159.95
Thermostat	19.95
Auto Flo Humidistat	34.95

## CO<sub>2</sub> SYSTEMS

CO <sub>2</sub> Regulator/Distributor	139.00
E.S.U. CO <sub>2</sub> Generator (up to 500 sq. ft.)	324.00
Johnson CO <sub>2</sub> Generator (up to 4800 sq. ft.)	499.00

## CHARCOAL FILTER SYSTEMS

Skunk Buster #100	109.00
Skunk Buster #200	169.00
Skunk Buster #400	225.00

## NEGATIVE ION GENERATORS

Airease	49.95
Pulsair	99.00



## GROWING SUPPLIES

Mylar (Double-sided 99% reflectivity)	
4'x50' roll	29.00
4'x100' roll	49.00
Mini Grow House	14.95
Rock Wool	
2"x2" Cubes	20
3"x3" Cubes	39
3"x4" Cubes	49
40 lb. Bale	39.00
Rock Wool Slabs	
3'x6"x3"	4.99
3'x8"x3"	6.99
3'x12"x3"	10.99
Grow Bags	
2 Gallon Grow Bag	39
5 Gallon Grow Bag	59
7 Gallon Grow Bag	65
10 Gallon Grow Bag	69
Alka Liche	
1 quart	6.95
1 gallon	16.99
Safer Soap Insect Spray	
8 oz. spray	2.99
8 oz. concentrate	6.75
Rootone Hormone Rooting Powder (4 oz.)	1.69
Jiffy 7 Peat Pellets (2 doz.)	2.40
Wilt Pruf Plant Protector (keeps leaves from burning)	
14 oz. Spray	5.49
1 pint concentrate	8.99

## BLACK GOLD FERTILIZER

All Organic 15 cu. ft.	8.99
Pure Earthworm Castings 20 quarts	13.95

## NUTRIENTS

Greenleaves All Purpose Liquid Nutrient—ideal for all stages of growth. Use with soil or hydroponic systems.	
12 oz. bottle	3.95
1 gallon	19.95
Super Bloom Liquid Greenleaves 10-40-10	
12 oz. bottle	5.95
1 gallon	24.95
E.S.U. Dry Concentrate—concentrated water soluble fertilizer, 1 teasp. per gallon, 1 pound makes 100 gallons.	
Grow (20-6-16) Bloom (9-21-12) All Purpose (16-12-16)	
8 oz.	3.95
5 lbs.	19.95
25 lbs.	79.00

## ROOTING FORMULA

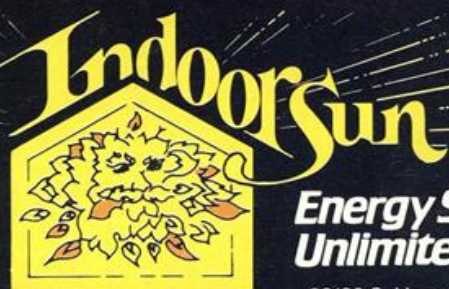
Great Roots—Super liquid rooting formula (with rooting hormones and minerals) 2 part	
13 oz. total	14.95

## BOOKS

Gardening Indoors	14.95
Beginning Hydroponics	7.95
Hydroponic Gardening	7.95
Hydroponic Food Production	24.95

## INDUSTRIAL CATALOG

(\$5.00 refunded with first order from catalog)	5.00
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**MH 1000 Watt Professional System** ..... (Reg. \$210) **\$165.95**  
18" Dome (for HORIZONTAL reflector or 48" PARABOLIC add \$4.95). High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord; 110,000 lumen / 12,000 hr. bulb. (For SUPER BULB 125,000 lumen add \$14.00).

**MH 1000 Watt Deluxe System** ..... (Reg. \$238) **\$179.95**  
Choice of: HORIZONTAL reflector, 48" PARABOLIC, 46", 22" adjustable Dome. High quality, assembled, QUIET, ventilated ballast box with GROUNDED 6-OUTLET, ON-OFF CONTROL, 15 AMP. PROTECTIVE CIRCUIT BREAKER; 20' lamp cord; 110,000 lumen / 12,000 hr. bulb. (For SUPER BULB 125,000 lumen add \$14.00).

**MH 400 Watt Deluxe System** For small area up to 4'x4'. (Reg. \$151) **\$124.50**  
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The ultimate grow light / 90,000 lumens of perfectly blended light. 24"x20"x10" Horizontal, ventilated, super-reflective, electro white aluminum reflector, with 2 bulbs a MH 400 & HPS 400; quite remote ventilated ballasts.

**HIGH PRESSURE SODIUM: Increases budding & flowering**

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Choice of: HORIZONTAL reflector, 48" PARABOLIC, 46", or 22" adjustable Dome. High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord; 5KV socket; 140,000 lumen / 24,000 hrs. bulb.

**HPS 400 Watt Deluxe System** ..... (Reg. \$215) **\$184.95**  
18" Dome (for HORIZONTAL reflector or 48" PARABOLIC add \$4.95). High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord; 50,000 lumen / 24,000 hr. bulb.

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**Motorized Lite Track™ Double your light coverage** ..... **\$93.95**  
Best single light mover; 6' track; covers up to 8'x10' (EXTENDER for 2nd light \$38.95).

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Two lights rotate continuously in full circle; greatest coverage, up to 12'x12'.

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**HYDROPONICS:** Our customers say their plant yields are three times greater and two times faster with Hamilton's automated "flood/drain" HYDROPRO system. Roots are provided maximum direct nutrition and aeration without soil.

**HYDROPRO SINGLE™:** Ideal up to 4 plants; 2' x 2' area ..... **\$59.95**  
Includes: pump, grow & bloom nutrients, timer, pH test kit, Jiffy 7, manual, etc.

**HYDROPRO 4™:** Grow up to 16 plants; 3' x 9' or 8' x 8' area ..... **\$187.95**  
Includes submersible pump, grow & bloom nutrients, timer, manual and more.

**HPS BULBS - That work in metal halide systems!**  
1000 watt ..... **\$137.50**      400 watt ..... **\$67.50**

**CO<sub>2</sub> ENRICHMENT SYSTEM:** Increase growth by 40% . **\$137.95**

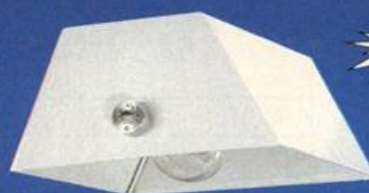
**FREE INDOOR GARDENING BOOKLET**  
with any system purchased

**ION GENERATORS:** Clean growing area of smoke, odor, pollen & pollutants.  
AirEase Ion . . . . \$49.50      Pulsair; generates 300% more ions . . . . **\$96.50**

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**NEW**

HORIZONTAL reflector  
40% more light than 46"

**SALE**



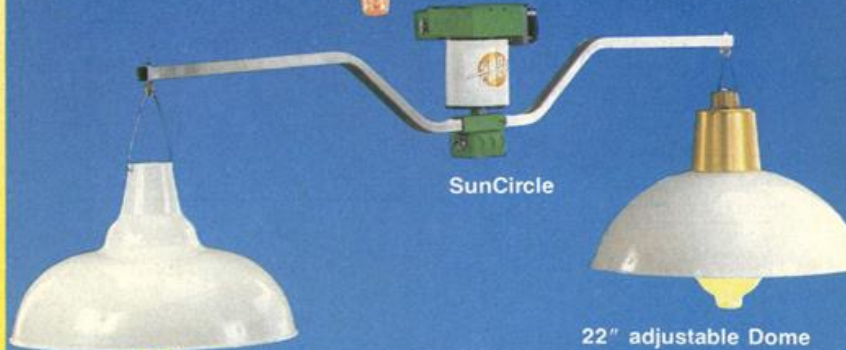
46" adjustable

Motorized 6' track

48" PARABOLIC  
18% more light than 46"



SunCircle



18" electro-white Dome

22" adjustable Dome



Heavy duty ballast

HydroproSingle

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Pulsair



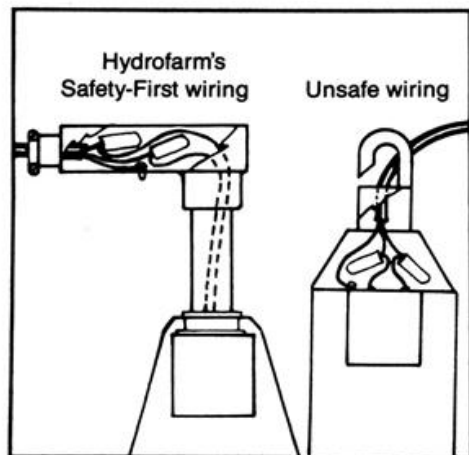
## SIMON SAYS:

### What to Look For When Buying Grow Lighting Fixtures

Simon Wright, author of MEGACROP, answers your indoor growing questions.

**Q** There seem to be a lot of different ways to wire the socket to the lamp cord. Is any one method better than another?

**A** Yes! The connection made between the black lamp cord and the light socket is critical. The right way is to run special high-temp leads away from this heat-sensitive area out to a cooler place where the connection to the lower temperature lamp cord can be made safely. What you *don't* want is a connection made right at the socket where the high temperature can eventually cause the lamp cord insulation to dry out and crack, exposing bare wire. This common shortcut can lead to a dangerous short!



**Q** Should I get a system with an in-line plug?

**A** No. Although some companies offer the convenience of an in-line plug, what they don't tell you is that either the cord, the plug, or both are only rated for 250 volts. All systems should use **600 volt cord** from the ballast to the high-temp socket leads. Don't settle for less!

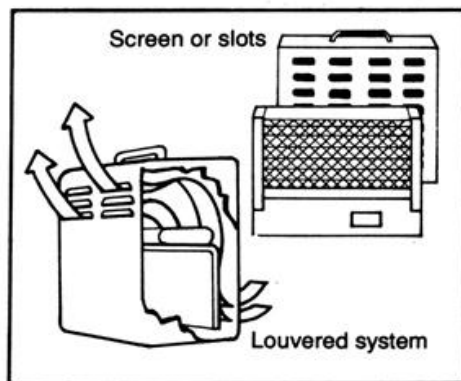
**Q** Does my light system really need a heavy-duty power supply cord from the ballast box to my timer in the wall outlet?

**A** Yes! This cord should be **14 gauge** (the lower the number, the heavier the gauge). Do not buy a 1000 watt system with an inadequate 16 gauge power cord; it can get so hot it may actually melt your timer!

## ALL LIGHTS ARE NOT CREATED EQUAL

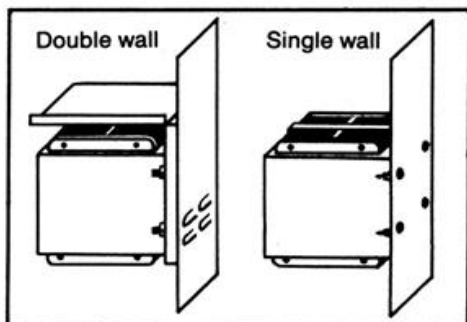
**Q** Aren't all the ballasts really the same?

**A** All ballasts consist of a transformer and a capacitor, but the similarities end there. There are great differences in the way these electrical components are housed. The first thing I always caution against is buying a so-



called "open" ballast which is really nothing more than mounting the components on a board or a piece of sheet metal. Unprotected electrical components can be a real potential hazard in an area where water is being used. Ballast enclosures come in two types: ventilated and louvered. Ventilated boxes (plain screens or open slots) will keep your hands out of the ballast but won't prevent water from splashing the components. **Louvered enclosures** are a much better choice. Hydrofarm's bi-level louver system not only protects the components, but has louvers set lower in the rear and higher in the front so cool air is actually drawn in through the lower louvers, flows in and around the components, and then exits through the upper louvers.

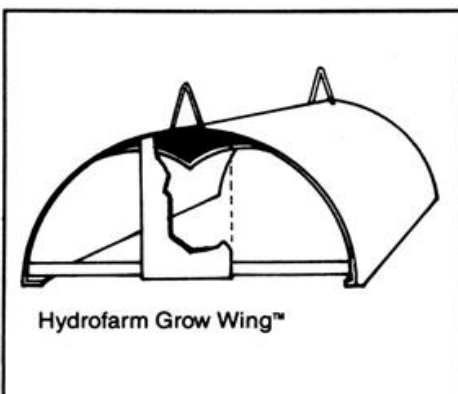
Another difference is how the components are mounted in the enclosure. The best method is **double wall construction**, where components are mounted on a special steel plate that is welded to the wall of the box. This has several advantages: extra strength



is added to support the heavy transformer; a space is created for cool air to circulate around the components; the outer wall of the box stays cooler. Hydrofarm not only uses this double wall construction technique, but they also utilize **welded studs** to securely anchor these heavy components. Some "home-made" units use only sheet metal screws which, if they don't break loose in shipping, will loosen up and rattle later. Numerous screw heads sticking out the side of the enclosure are a sure tip-off of single wall construction.

**Q** What type of reflector should I look for?

**A** Due to recent innovations, **horizontal reflectors** are generally recognized to be the best for most applications. Here's why: a bulb's light comes from the arc tube inside. A vertical bulb shines most of its light out sideways so it all must bounce off a reflector first. A lot of light energy gets lost this way. A horizontal bulb exposes the whole length of the arc tube, so it shines more light directly down onto



your plants. The light that does bounce off a horizontal reflector only travels a very few inches before being directed down, so very little is lost. A good example is Hydrofarm's new horizontal Grow Wing™, which uses an ingenious double parabola design to efficiently reflect light for optimum growth.

A few last tips to help you make the right choice: generally, steel construction is preferred over aluminum because of its strength. Painted surfaces are preferred over plain or polished metals which tend to oxidize and rust; try to buy brand name products made by a manufacturer with a good reputation for quality and service—you'll be glad you did.



# LETTERS

## GONE GONE GIRLS?

First of all, what is a go-go girl? Without even looking at the sexually implicit photograph, the mere title implies a masculinely-dominated magazine's insult to the mentality of its readers. "HIGH TIMES believes in personal freedom" (January '88, page 14), yet displaying women as mere sex objects completely contradicts this image. In our opinion this section is completely chauvinistic and should be banned. By the way, if one feels the need to look at a "go-go girl," *Playboy* is located just a little further down the newsstand shelf.

—J. and S.

Falmouth, Massachusetts

One of the great failures of the feminist movement has been its attempt to deny the innocent pleasures of sex appeal. While we are sorry that women have been frequently victimized by male-dominated societies, we do not intend to deny biological forces provided by Mother Nature. Ninety percent of our readers are male, and since the beginning of time, men have enjoyed the sight of attractive females. That's why such pictures dominate our television screens, magazines, billboards, and films. Most other magazines put sexy "go-go girls" on their covers to sell issues. But that doesn't stop women from buying *Cosmo*, *Vogue*, and *Elle*, does it? So why not get off our back already?

## PARADISE LOST

I was very impressed by John Holmstrom's article on Negril, Jamaica, in the March issue. It does seem unfair that politics have spoiled this ganja paradise. I feel very sympathetic for the people who have had their fields burned by Ronnie Raygun's troops. However, I recently read in *Time* magazine that gangs of illegal aliens from Jamaica are running the crack trade in Miami. I don't know who to believe, but if *Time* has their facts straight, then isn't it hypocritical of the Jamaicans to say coke is ruining their Rasta culture? Who is telling the truth?

—Confused

Billings, Montana

**Not all Jamaicans are Rastas, and not all Jamaicans are coked-up rude boys with guns. Why can't both articles be true? By the way, there is one fact in the article we'd like to clear up: Xtabi does allow locals to patronize its premises.**

I congratulate you on the articles on Negril. I have lived in Jamaica for long periods, and my last visit to Negril in January convinced me it is time to seek a new, less corrupt place to cool out. John Holmstrom's article was soft: Negril is MUCH WORSE and Kingston is HELL. Everyone is living in an armed camp. The country is flipping out. If Peter Tosh, patron saint of Rasta peace and purity, can get all those bullets, what happen fe you tourist?

—Beam Me Up Scottie

Marina Del Ray, California



I have thought about visiting Negril for many years, looking forward to some great smoke, beautiful beaches, and reggae. Then I read your March issue. It is sad to read that Jamaicans have to deal with cocaine, American helicopters and yuppies. However, Jamaican politicians will act if they believe tourists are being scared away by coke-induced crime. HIGH TIMES readers can help by flooding the Jamaican tourist board with letters expressing their reservations about visiting Jamaica. Mention rumors about coke problems and 'copter raids. Send letters to: Jamaican Tourist Board, 866 Second Avenue, New York, NY 10017.

—L.A.

Champaign, Illinois

## POT POLITICS

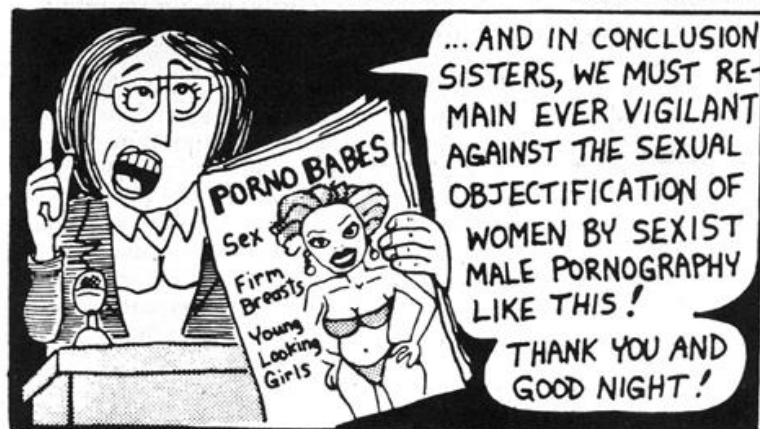
I was surprised to read Peter Gorman's article on "The Politics of Marijuana" (March '88), which claimed that none of the presidential contenders advocated legalization. Former Congressman Ron Paul, candidate for the Libertarian Party, has called for legalization of all drugs. While he does not advocate their use, he feels the government has no right to interfere with the private lives of adults. I'm voting for Ron Paul and I encourage other "victimless criminals" to do the same.

—P.B.

Gainesville, Florida

continued on page 28

## TWISTED IMAGE by Ace Backwords





# THE 1988 HIGH TIMES READER SURVEY

WIN A FREE T-SHIRT!

Play HIGH TIMES Editor and win a chance at one of twenty free HIGH TIMES t-shirts!

Just fill out the survey below and mail it back to us!

1). Are you : ☐ male ☐ female?

2). What is your age?

☐ under 18

☐ 18-22

☐ 23-26

☐ 27-35

☐ 36-45

☐ 45 or older

3). Where do you buy HIGH TIMES?

☐ newsstand

☐ bookstore

☐ record store

☐ convenience store

☐ I subscribe

☐ other

4). How often do you buy HIGH TIMES on the newsstand, record store, etc.?

☐ 1-3 times a year

☐ 4-6 times a year

☐ 7-9 times a year

☐ 10-12 times a year

5). How long have you been buying HIGH TIMES?

6). Why did you buy this issue?

7). I do the following at least once a month:

☐ buy a comic book

☐ buy another magazine

☐ buy a book

☐ watch videotapes

☐ go to the movies

☐ buy a record

☐ go to a rock concert

☐ go to a live show other than a rock concert

☐ use a computer for fun

8). Rate the following articles on a scale of 0-5 as follows:

5-Loved it!

4-Very good

3-Mediocre

2-Not good

1-Hated it!

0-Didn't read

☐ Heavy Metal

☐ Electronic Drugs

☐ Koh Samui

☐ The Motion of Light in Water

☐ Ask Ed

☐ Dr. Indoors

☐ Page Six

☐ Letters

☐ Highwitness News

☐ One Man's Dope

☐ NORMLIZER

☐ THMQ/THMA

☐ Centerfold

☐ No Sweat Hydroponics

☐ High Art

☐ Products

☐ Bookshelf

☐ Hep Cat

☐ Go-Go Girl of the Month

☐ The Hound's Eye View

☐ Chef Ra's Psychedelic Kitchen

☐ Twisted Image

☐ Psychotronic

☐ Tapeworm

☐ Top 100

9). If I were editor of HIGH TIMES I would run:

more less the same

1) comic strips ☐ ☐ ☐

2) politics ☐ ☐ ☐

3) music ☐ ☐ ☐

4) travel ☐ ☐ ☐

5) psychedelic drugs ☐ ☐ ☐

6) marijuana ☐ ☐ ☐

7) growing ☐ ☐ ☐

8) interviews ☐ ☐ ☐

9) health issues ☐ ☐ ☐

10) mystic experiences ☐ ☐ ☐

11) science ☐ ☐ ☐

12) fiction ☐ ☐ ☐

13) letters to the editor ☐ ☐ ☐

14) legal and non-

chemical ways of

getting high ☐ ☐ ☐

10). The best article in this issue was:

11). The article I wouldn't have bothered printing was:

12). Who would you most like to see HIGH TIMES interview?

13). My three favorite music/rock groups are:

14). I buy the following magazines regularly:

15). If I were the editor of HIGH TIMES, the first thing I'd do to improve the magazine would be:

(check only one)

☐ expand the letters to the editor section

☐ run more feature length articles

☐ expand the grow section

☐ run more pictures of pot

☐ run more fiction

☐ expand the news and political coverage

☐ run more stuff on legal and non-chemical ways of getting high

☐ run more comic strips

☐ run more color pages

☐ expand the number of pages in HIGH TIMES

☐ other: \_\_\_\_\_

16). Have you responded to at least one mail order ad in HIGH TIMES in the last year?

☐ yes ☐ no

17). Have you responded to a Classified ad in HIGH TIMES in the last year?

☐ yes ☐ no

18). What would you like to see advertised in HIGH TIMES?

19). What was your income last year?

☐ under \$10,000

☐ \$10,000-14,999 ☐ \$30,000-39,999

☐ \$15,000-19,999 ☐ \$40,000-49,999

☐ \$20,000-29,999 ☐ \$50,000 or more

20) Do you have any additional comments?

What local store in your area would you like to see display HIGH TIMES?

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip Code \_\_\_\_\_

To be eligible for the drawing, you MUST fill out this information:

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State: \_\_\_\_\_ Zip Code \_\_\_\_\_

Send your reply to: HIGH TIMES,  
Dept. S-2, 211 E. 43rd St., New York,  
N.Y. 10017



# PIONEERS IN THE MODERN ERA OF RESEARCH ON THE MINERAL NUTRITION OF PLANTS...ONE OF THEM WILL CHANGE YOUR LIFE



**LUTHER BURBANK** lived from 1849 to 1926, and not before or since has there been a greater contributor to plant development. Every domesticated fruit or vegetable or flower has been produced by Mr. Burbank directly or by his methodology.

Mr. Burbank's methodology was extremely simple: (1) First he would GATHER the most extensive seed stock of a particular species from all over the world. (2) Then he would PLANT all of the seeds closely together. From the resulting ten thousand plants, he would (3) SELECT one or two that had the most pronounced characteristic of size or shape or scent or color or whatever he was looking for. (4) From those one or two plants, all of the seeds were PLANTED and from the resulting ten thousand plants, only one or two would be (5) SELECTED that further developed more of the desired characteristic. This process of planting and selection would be repeated as often as necessary from a few generations to hundreds of generations until Mr. Burbank would release the final seed stock to the rest of the world.

Mr. Burbank grafted one hundred different types of apple branches onto a single apple tree and each branch bore a completely different fruit the first year for his personal selection. Inventing this grafting technique, he squeezed thousands of years of research into a few. The results of his work, from potatoes to apples to EVERY domesticated fruit, vegetable or flower, are what we grow today.

The Burbank Potatoe Quadrupled World Production in One Year. Luther Burbank never needed a lot of space. In his lifetime he conducted over one hundred thousand series of experiments and changed the world on less than three acres of land.



**DENNIS ROBERT HOAGLAND**, 1888-1949, was the inventor of the "four salt Hoagland solution" from which all HYDROPONICS are based. Although a brilliant botanist, Dr. Hoagland was interested in only one thing, the BIO-MASS (size and weight) of the TOMATO produced hydroponically. Working under the scientific assumptions of the early 1900s, Dr. Hoagland's world assumed four things:

A. Plants had a life cycle leading to death. WE NOW KNOW plants have a very different way of achieving a life and death cycle than does the human being. Humans are more genetically structured toward their life and death cycle than plants. Plants allow environmental factors more control over their life and death cycle as well as with their sex. Such things as (1) "PHOTO-PERIOD" (length of time under light and dark), (2) "THERMO-PERIOD" (length of time under temperature variation), and most importantly (3) "NUTRIENT PERIOD" (length of time under a given nutrient configuration were studied.)

B. Maximum SIZE and WEIGHT before death of (a) root, (b) shoot, (c) fruit — known as the "root to shoot to fruit ratio" — was the absolute goal. WE NOW KNOW much more about the root to shoot to fruit ratio. While keeping the fruit exactly the same size as normal, both the root (below the soil) and the shoot (above the soil) can be minimized. And by reducing the inter-nodal lengths (distance between the budding sites from an average of 6 inches to less than 1 inch), the number of normal sized fruit can increase up to thousands per plant depending on the plant type.

C. Plant "lush feeding" of excess nutrients meant nothing. WE NOW KNOW plant "lush feeding" kills the plant. The basis of the hydroponic method is that a fresh nutrient supply be pumped in while the used nutrient supply drains out. This allows the plant to absorb, for example, excess amounts of calcium. If allowed, the plant will absorb 10 times what it requires of calcium to the exclusion of other more beneficial nutrients like N, P, K, Mg, Na, Cl, etc. Too much calcium and the plant gets GARDENING OF THE ARTERIES and dies after one seasonal growth period.

D. An aqueous (water) based system without a "buffer" (soil having a cation exchange capacity, C.E.C.) was best. WE NOW KNOW an aqueous (water) based nutrient solution surrounding the root system without a "buffer" to protect the roots creates a "water root" — a thick, fleshy root that has layered itself with "fat" to protect itself. Nowhere near the amount of root surface area is produced hydroponically (water based) as when the roots are buffered against excess concentrations by a soil medium.

WE NOW KNOW that the soil mediums used by Dr. Hoagland, such as perlite, vermiculite, and sand have no buffering action or "CATION EXCHANGE CAPACITY" (C.E.C.). The CATION EXCHANGE CAPACITY of a soil medium is the ability of that medium to ABSORB AND RELEASE a nutrient solution. The cation exchange capacity of the soil medium protects the root system and allows it to produce thousands more root structures, thus producing thousands more square inches of root surface area. The greater the root surface area, the more efficient the nutrient uptake for faster growth.

The early 1900s did not have the advanced technology or today. Equipment for testing nutrient solutions and plant tissue such as the gas-liquid chromatographic assay (GLC), thin-layer chromatographic assay (TLC) and sophisticated atomic absorption equipment were not available.

With the aid of the computer since 1951, the medical profession by comparison has advanced in the last 30 years more than in the preceding 2,000 years. If Dennis Robert Hoagland had access to 1986 technology in 1920, he probably would have re-designed the hydroponic system.



**JEFFERY JULIAN DEMARCO**, 1951-\_\_\_\_\_, is President and founder of PYRAPONIC INDUSTRIES and is the inventor of the methodology known as GROWING PLANTS PYRAPONIMETRICALLY and the PHOTOTRON.

Three things are required to grow plants pyraponimetrically: 1. A laboratory grade growth chamber known as the PHOTOTRON. 2. A specific METHODOLOGY for plant growth and manipulation (instructions). 3. A very specific NUTRIENT SUPPLY COMPUTER DESIGNED IN PARTS PER MILLION (PPM) for each individual PHOTOTRON. The exact nutrient calibrations are individually calibrated based upon two soil samples taken from the phototron: one after FORTY-FIVE DAYS of plant growth and one after 90 DAYS of plant growth — ONLY TWO ARE REQUIRED.

Mr. DeMarco's Masters thesis was on the cannabinoid profile of marijuana. After working under both federal and state license in a laboratory at a major university for over two years, and since 1976 has developed the phototron, the methodology and the chemistry to study the internal workings of the plant (not just the SIZE and WEIGHT, but utmostly important to study the MOLECULAR and PHARMACOLOGIC properties of the plant). The research developed in pursuit of Mr. DeMarco's research PERTAINS TO ANY PLANT.

Pharmacognosy is the study of molecules produced inside plants. This type of study requires very sophisticated equipment like the Gas-Liquid Chromatogram (GLC), Thin-Layer Chromatogram (TLC) and Atomic Absorption.

THC-delta 9, the psychoactive molecule produced by the marijuana plant, is so microscopic that 100,000 molecules fit end to end would sit on the head of a pin. When you're concerned about growing structures so infinitely tiny, what difference does the size of the plant make?

In the disciplines of Botany, Horticulture, Plant Physiology, Soil Chemistry and Floraculture, a "root to shoot to fruit" ratio requires a large root and a large shoot to grow large fruit.

Growing plants Pyraponimetrically (by exactly measuring all 21 environmental elements), requires the plant to produce minimal root, minimal shoot (inter-nodal lengths) and maximize the number of budding sites and size of the bud, flower or fruit.

To develop the (A) PHOTOTRON, (B) the CHEMISTRY and (C) the plant manipulation methodology known as GROWING PLANTS PYRAPONIMETRICALLY, the marijuana plant was used because of its unique properties.

The PHOTOTRON was designed to: (1) GROW 6 PLANTS THREE FEET TALL IN 45 DAYS; (2) Duplicate exactly the quality of the plant material the seed came from; (3) RE-FLOWER AND RE-BUD PLANT MATERIAL EVERY 45 DAYS UP TO 9 TIMES PER YEAR; (4) NEVER KILLING THE PLANTS, YEAR AFTER YEAR; (5) BE REMOVED FROM EVERY DAY. (The system is designed for plant removal, not containment); and (6) To produce 6-8 ounces of plant material every 45 days.

Growing Plants Pyraponimetrically will revolutionize indoor plant production as we know it today. At PYRAPONIC LABORATORIES, over 75 PHOTOTRONS are used for new experiments. To date, PYRAPONIC LABORATORIES have successfully catalogued 17 varieties of flowering plants, 14 varieties of fruits and vegetables, 8 varieties of tobacco and will force flower roses 365 days per year.



# PHOTOTRON

IF YOU ROLL YOUR OWN, GROW YOUR OWN WITH STATE OF THE ART HORTICULTURAL TECHNOLOGY

My name is Jeffery DeMarco, president and founder of Pyraconic Industries. My master's thesis concerned the cannabinoid profile of marijuana. The knowledge gained through this research and experimentation can now be applied to the growing of any herbaceous plant from mint and basil, to roses, orchids and tobacco.

In pursuit of my own master's thesis, I generated the most extensive, popular literature library in the world. Then, I generated the most extensive, scientific bibliography in the world. Then, I went into the laboratory at a major university, under federal license, and developed the most sophisticated laboratory grade growing chamber in the world called the PHOTOTRON, and the methodology "Growing Plants Pyraconimetrically".

The Phototron is not presented to the public as paraphernalia intended for the unlawful production of marijuana. The system was designed to grow any plant. The private cultivation of marijuana has been illegal under numerous state and federal laws since 1936. Marijuana can only be grown legally with a federal license. Pyraconic Industries will never knowingly sell products to anyone expressing the intent to produce illicit substances.

If you read all the popular literature, I did. All of the scientific literature, I did. And look at every apparatus for growing plants you will find one common denominator. Every system, before the Phototron, has attempted to re-create a tropical climate in a confined area, such as Hawaii. I suggest that when you finally achieve the re-creation of Hawaii, you can do NO BETTER than Hawaii's results. AND WHAT ARE HAWAII'S RESULTS?

In fact you will grow the plant six (6) to nine (9) months with an average six (6) inch internodal length. (the distance between fruiting sites). That will produce a fruiting ratio at the tops of the plant equal to only ten percent (10%). Ninety percent (90%) of the plant material is unusable for fruit production and the plants are killed off after harvest in preparation for planting the next crop.

Look, the only thing I am waiting nine (9) months for is a baby. Number two, I don't want a tree growing in my home. Number three, I am not going to pay the electric bill to artificially reproduce the sun. That is why I made my system so revolutionary. The Phototron measures only 34 inches tall by 18 inches wide. Its potential is deceptively masked by the simplicity of functional design and compact size. Please, judge my system on its proven performance - not its size. Bigger is not always better - in fact the exact opposite is true.

The Phototron II will draw \$4.00 per month in electricity (average). My system is totally different. Beginning on DAY 20 after seed germination an average of six (6) to eight (8) ounces of plant material, such as tobacco can be harvested every forty-five days.

In fact you will grow 6 plants, 3 feet tall in 45 days, guaranteed. You will maintain a one-inch internodal length, guaranteed. That each plant will produce 1,000 budding sites, FROM TOP TO BOTTOM, guaranteed. And there will be 6 plants per Phototron II, guaranteed.

And this is the only system in the world where you can re-flower and re-bud the exact same plants every 45 days up to nine times per year without killing them off, EVER. Then, you may re-flower and re-bud the exact same plants every 45 days up to nine times per year, while you remove from the system every single solitary day. Every Day.

Please, do not allow the technical sounding nature of the Phototron scare you away. I personally service back and guarantee each unit sold. The instructions are clear and simple, the system comes to you complete. All you must do is select your seeds, plug in the system and water it routinely. Then, if you have any questions, you may call me directly, ask your question, and get your answer.

You can not fail with my Phototron. I do not allow any of my Phototrons to fall below showcase. I personally have guaranteed every Phototron ever sold and I have never had one returned, ever, and I'm not starting now.

Call me at 1-312-544-BUDS.

If you do not learn more about plant production than you have ever learned before, I will pay you for the call.

*Jeffery Julian DeMarco*

THE PHOTOTRON		NONE	12	YES	YES	YES	YES	YES	YES	YES
LIGHT	Halide Systems	50%	1	NO	NO	NO	NO	NO	NO	NO
	LEAF SELF SHADING									
NUTRIENTS	LINEAR FEET OF LIGHT									
	SPECTRUM ADJUSTABILITY									
CO2 SERVICE	COMPUTER DESIGNED FOR EACH SYSTEM									
	COMPUTER TAILOR SEX									
	GUARANTEE FEMALE SEX									
	NEVER KILLS THE PLANTS									
	ONE INCH INTERNODAL LENGTHS - 1,000 BUDDING SITES PER PLANT									
	ONE INCH INTERNODAL LENGTHS - 1,000 BUDDING SITES PER PLANT									
	RE-FLOWER AND RE-BUD SAME PLANTS EVERY 45 DAYS UP TO 9 TIMES PER YEAR									
	TOTALLY SELF-SUFFICIENT TO LEAF SATURATION									
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OVER TWO YEARS OLD



## GROWTH PATTERN OF CUCUMBERS GROWN PYRAPONIMETRICALLY



Typical testing pattern by Pyraponic Laboratories depicting the morphological differences of cucumbers grown under identical conditions except one nutrient level.



Plants nearing top of Phototron in less than 30 days.



Plants filling the Phototron in less than 45 days.



Tremendous flowering and fruiting less than an inch apart.



Normal fruit with a reduced root-to-shoot ratio.

**PYRAPONIC LABORATORIES MAINTAINS.** (1) The most extensive scientific literature collection in the world on PHOTOTRON accelerated plant growth. (2) A comprehensive library of Data Packages and Soil Analysis selected from over 25,000 PHOTOTRONS sold worldwide. (3) On premises, numerous PHOTOTRONS with the capacity of 3 shelves each so that up to 350 concurrent experiments may be ongoing at any one time. Jeffery Julian DeMarco, President and Founder of PYRAPONIC INDUSTRIES and PYRAPONIC LABORATORIES, maintains his PHOTOTRONS for the purpose of killing plants. It is only after experimenting with the parameters of death at PYRAPONIC LABORATORIES that the PHOTOTRON can perform so miraculously around the world. Mr. DeMarco has full-time laboratory technicians on staff and an extensive technical consulting network from Universities around the world. PYRAPONIC LABORATORIES maintains a sophisticated on-premises computerized network system for data analysis and retrieval. Thousands of experiments have been conducted and thousands more will be ongoing to expand ever further the performance of each PHOTOTRON. As PYRAPONIC LABORATORIES introduces new methods or nutrient formulations, each PHOTOTRON owner is contacted so that every PHOTOTRON is upgraded long after it has been purchased. The PHOTOTRON improves more and more the longer you own it.

## GROWTH PATTERN OF TOMATOES GROWN PYRAPONIMETRICALLY



Young tomato plants in vegetative stage.



Young tomato plants beginning to flower and fruit.



Fruiting less than an inch apart.



Normal fruit development with a reduced root-to-shoot ratio.



140 tomatoes harvested from 4 Phototrons in 150 days from seed germination.

## SNAPDRAGONS GROWN PYRAPONIMETRICALLY



Day 46: Phototron jammed with flowering snapdragons



Day 58: Flower with reduced root-to-shoot ratio.

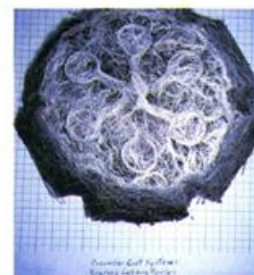
## GROWTH PATTERNS OF ROOT SYSTEMS



Complete root system on the stem structures of flowering marigolds.



Pattern depicting the morphological difference of root system.



Mycorrhizal inoculated root system in base of unit on day 45.

## HERBS, VEGETABLES AND FLOWERS GROWN PYRAPONIMETRICALLY



Day 65: Herb garden of Parsley, Sage, Basil, Thyme and Chive.



The hottest jalapa pepper grown anywhere in the world.



Corn development under high light intensity of Phototron.



Normal salvia still flower after more than 1 year old.



Normal marigold size produced with reduced root-to-shoot ratio.



# JUNE '88 HIGHWITNESS

No. 154  
NEWS

## DISPATCHES: Collapsing Colombia

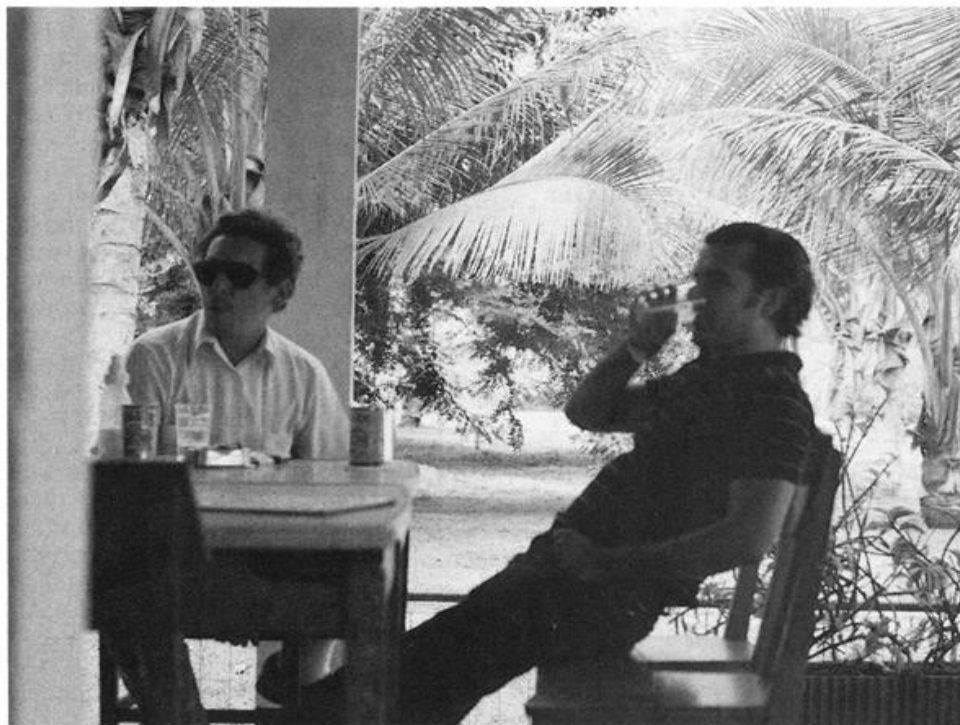
by Rob Hambrecht

Focusing on only those third world news events that are currently and directly related to the United States, American media tends to present a lopsided view of the news from developing countries. Usually, screaming headlines announcing the final destruction of the political infrastructure are the first inkings we insulated North Americans get of the armed conflicts that have been fought—albeit without the U.S. Marine Corps—for many years.

Columbia is a good example. Although the Medellín cocaine cartel, and the cases of Jorge Luis Ochoa and Carlos Lehder, have received ample news space and cover treatment in both *Time* and *Newsweek*, coverage of Colombia's crushing economic problems, protracted guerrilla war, and right-wing death squads, remains minimal—despite the fact that thousands have died as a result of these conflicts. But even though the recently crowned cocaine kingpins do represent one facet of the complex Colombian political picture, the many other power factions, whose origins go back decades or even centuries, form the nucleus of the country's present situation.

Different interests have been fighting for domination over Colombia's treasures for hundreds of years, and the beginning of the twentieth century found the country engulfed in a conflict known as the "Thousand Days War", an internal struggle that cost thousands of lives. The carnage weakened things to such an extent that Theodore Roosevelt provoked an altercation with Colombia in order to seize the newly completed canal in the isthmus of Panama. Forced to recognize the new status quo and bow to the pressure of the big stick, an already debt-ridden Colombia eventually accepted a much needed \$2,500,000 for the lost territory.

A relatively peaceful period followed, during which old rivalries and class differences seethed rather than exploded. But on April 9, 1948, the popular leftist mayor of Bogotá, Jorge Eliécer Gaitán, was assassinated in the street before thousands of witnesses. The assassin, Roa Sierra, was immediately lynched by



ROSA ALEMANY

### *Colombia: tropical paradise or political inferno?*

a mob. The *bogotazo*, as the three days of rioting following Gaitán's death became known, escalated into *la Violencia*—a civil war which lasted nine years. At the end of the conflict, Colombia's oligarchic political parties, the Liberals and the Conservatives, formed the National Front—an arrangement allowing them to share power by trading off presidential terms. Local party bosses confiscated land abandoned during the fighting, and the thousands of now landless peasants flocked to the cities, which caused the slums to swell. Some two hundred thousand people died during *la Violencia*, and much of Colombia's present situation, including the origins of such major guerrilla groups as FARC and ELN, can be traced to this period.

The disparity between the nearly half of Colombia's population living in poverty and the small group who hold the greatest concentration of wealth was bound to breed violence. Currently, there are seven major guerrilla groups along with over a hundred paramilitary organizations in Colombia, including drug armies, that are fighting for control of the country (either partial or total). The Revolutionary Armed Forces of Colombia (FARC) which was originally organized in 1949 as a militia to defend the peasants from attacks by the army and

*bandoleros*, has since become one of Colombia's largest guerrilla groups. Founded by Pedro Antonio Marín, aka *Tiro Fijo* (Sure Shot), FARC began by creating the "Independent Republic of Marquetalia", a jungle headquarters which became the target of Gustavo Rojas Pinilla, whose military government was the only break in the Liberal/Conservative National Front pact. Pinilla sent in 10,000 troops in a hapless attempt to nip the movement in the bud. FARC, with the support of the peasantry, repelled the army and maintained control of a large section of the southern departments of Cauca and Caquetá, growing to a size, according to a two-year-old estimate, of 20,000.

In the early '80s Conservative President Belisario Betancur appealed to FARC and other guerrilla groups to go legal. A truce and the formation of the leftist Union Patriótica party resulted from the negotiations—much to the chagrin of the military and economic ruling elite, who opposed any dealing with the guerrillas. In the elections following the Patriotic Union's creation, many of its candidates won political seats, especially mayoral positions. But death squad assassinations of U.P. leaders and supporters put an end to the short-lived success of this new unarmed politi-

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THOMAS KING FORCADE, 1945-1978

## PISS PATROL SPOTLIGHT ON: CONTROL DATA

by Maura Less

If you're stuck with a drug testing program, one like that of Control Data Corporation is probably the fairest and the best way to go. Unlike Motorola's policy, which we looked at in the April HIGH TIMES, it does not single out drug users for discrimination and let alcoholics slip merrily along—it seems more designed to actually help those with a drug or alcohol problem, rather than extend the long arm of the law.

According to Bob Jones, Director of Corporate Health Services, employee concern over drug use at Control Data plants led to implementation of this policy, essentially an addition to an alcohol-use policy instituted by the company in 1973. According to Jones, employees returning from drug or alcohol rehab programs were afraid that temptation from others would lead them right back to their old problems. Management was initially resistant to the program—they didn't see the need for it, said Jones—but with all the media attention given to drugs lately, they agreed to go ahead with it in March 1987. We could not get independent confirmation of this story, which reeks slightly of Afghanistan's inviting the Soviets in to help govern them—but their policy document does include what is purported to be a letter from an employee asking what Control Data is doing about our horrible drug epidemic, and in the eighties things like this are sadly all too common.

Control Data tests all prospective employees for use of cocaine, methadone, heroin, dilaudid (a synthetic opiate painkiller approximately four times stronger than heroin, according to the *Physicians' Desk Reference*), darvon (another synthetic opiate, slightly weaker than codeine), barbiturates, benzodiazepines (valium and such), methaqualone (quaaludes), codeine, morphine, PCP, and, of course, unfortunately, THC and metabolites.

Before the test, applicants are asked to list the drugs they are legitimately taking. Jones says that if someone is on methadone maintenance, or is taking valium for an anxiety problem, it would not make that person a less attractive job applicant. In fact, he says he has personally hired several people on methadone, and it has worked out well for both them and the company.

People already employed by Control Data are not tested unless they are involved in a job-related accident, or unless there is "reasonable cause." Con-

trol Data's policy document defines this as "identifiable behavior or performance results that may cause a reasonable person to question whether the employee is physically or emotionally able to perform his or her job. Such behavior may include, but is not limited to, stumbling, slurred or incoherent speech, apparent disorientation, emotional outbursts, and inability to perform normal job tasks."

An employee found in this state would be taken to the company doctor, who would then decide whether or not to order a drug test. The employee's manager is discouraged from making a diagnosis or suggesting that the employee is on drugs—Control Data quite correctly leaves diagnosis of medical problems to qualified professionals. The employee may refuse the drug test, and one refusal is not enough to put his job in jeopardy. If there is another incident that year, however, and he refuses again to be tested, he can be fired. One positive test, also, does not put someone's job on the line. As above, if there are two positive test results in a year, the employee may be asked to go into the company's rehab program. If he refuses he is likely to lose his job.

Control Data also takes more care than most other companies that their test results are accurate. If there is a positive result for anything, it reconfirmed using the expensive yet highly accurate gas chromatography/mass spectrometry method before it is reported as positive. Thus, false positives are highly unlikely.

As for alcohol use, it is up to the company doctor to order a blood test if he feels that alcohol is what is causing the employee's problem. Again, unlike many companies who have instituted these programs because it is the trendy thing to do, or who use them to decide whom to get rid of when they have to fire some employees, Control Data seems really concerned about their workers' health—and since alcohol-related problems are far more common than drug problems, they have had a program to help rehabilitate alcohol-abusing employees since 1973. They have a twenty-four hour hotline which employees can call for counseling if they feel they have a drug or alcohol problem; such calls do not jeopardize one's job because, "chemical dependency is viewed by Control Data as a health problem that is treatable." Unfortunately, this hotline is also a narcline—employees who see others using drugs at work are asked to call this number to anonymously (if they wish) report them. But, the policy does state explicitly that it does *not* want managers to act as policemen—and though it reminds them that they may not search an employee, it says that they *can* search his desk, since it is company property.

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# ONE MAN'S DOPE

## THE BLACK SABBATH SPECIAL

by Dean Latimer

Witchcraft and mind drugs have always gone hand-in-paw. After the Middle Ages, when Catholic Inquisitors and Protestant Reformationists alike were obsessed with determining who The Witches were so that they could be burned, the Flying Broomstick came to be universally acknowledged as tell-tale witchcraft paraphernalia. Women would smear the ends of their magic broomsticks with a salve containing a preparation of mandrake root, introduce it into their vaginas (the male warlocks who presided over them buggered themselves with this magic ointment), and then fly off to their hilltop Black Sabbaths. There, with their enchanted animal familiars alongside, they'd caper and prate in tongues and perform perverted intercourse and blasphemies with Lucifer and Be'elzebub and the gang, until the sun came up. Literally hundreds of different people described precisely this same Sabbath procedure to Inquisition torturers, and the notarized transcripts of their interrogations have been preserved to this day. So of course, these Flying Broomsticks must have been real things.

Then again, there's this funny thing about torture. A torturer can always get his subject to say exactly what he wants him to say, even when the torturer doesn't consciously realize he's suborning the testimony. In the case of witchcraft interrogations, these poor people were simply hauled down to the torture chamber and shown the instruments of pain there—formally placed in *conspetu tormentorum*—and sharply bidden to confess, lest the authorities have to use these awful things on their bodies. But since the poor terrified detainee either didn't know what he was expected to confess to, or confessed to immaterial, unmagical sins (like Sabbath-breaking or poorbox-rifling), of course the Inquisitors were fain to put their victim on the rack, now under *redoubled* suspicion of witchcraft, because he'd refused to admit to it without coercion.

Reading the transcripts of witchcraft interrogations in sourceworks like Charles Lea's *History of the Inquisition*, you can get a perfect idea of how it worked. The preliminary torturing was notably fierce, so that the suspect was perfectly aware of what he'd get if he said the wrong thing under cross-examination. Then, while the subject was kept in some sort of securement that maintained the pain as intensely as

possible, the examiner began asking questions about Flying Broomsticks, magical mandrake ointments, enchanted animals, flying through the air, and so forth and so on. With the poor wretch desperate to confess to *anything* just to get off the rack or out of the iron hoops, the whole Black Sabbath narrative just naturally developed.

In none of these witchcraft transcripts do the Inquisitors show any awareness that they're creating the testimony they're eliciting. They appear to be good, dedicated, honest prosecutors, and whenever a subject denies some particular element in the Black Sabbath scenario, they scrupulously question further: "But if your cat is not an imp of Be'elzebub, Madam, then whose imp is it? Azazel's?" The Inquisitors seem to have simply and honestly been unable to put themselves in the place of their clients—hanging from their elbows tied together behind their backs, in no condition at all to engage in lengthy cross-examination. And so these honest prosecutors of the Inquisition were always able to come up with a good long Black Sabbath confession, correct to every classical detail of the scenario; and they never realized the story was of their own creation.

My question has always been, who exactly was it that first dreamed up this phenomenally colorful and complicated Black Sabbath fantasy? There's a clue in the main element of the magic Flying Broomstick ointment—mandrake. Now, mandrake is *Solanaceae* flower, meaning that most parts of it are chock-full of the tropane belladonna alkaloids: atropine, hyoscyamine, and scopolamine, all notably mind-bending drugs. Jimsonweed, the American *Solanaceae* closest to European mandrake, is actually a "controlled substance" in an increasing number of local jurisdictions around the country, because of persistent rumors that "Those Kids" (whomever they may be) eat Jimsonweed flowers to get high. (People who pass laws like that are



blissfully unaware that the potato and tomato plants are both also *Solanaceae*, and their aboveground flowers are just as chock-full of belladonna alkaloids as Jimsonweed or mandrake.)

Now, here in the Underground Empire of the Clandestine Drugs Culture, I've spoken to any number of people who've tried Jimsonweed, and not one of them would ever do it again, not even at the point of a gun. First of all, the belladonnas are terrific antihistamines (they're the main ingredient in plenty of over-the-counter cough and allergy nostrums), and so they dry up every mucus surface in your body, from nose to tushie, leaving you in a state of unalleviated, irremediable thirst throughout the experience (which can go on for days, according to the size of the dose). And after you recover from your immobilized belladonna coma, you invariably have "amnesia for the event"—you can just vaguely recall a prevailing sensation of massive vertigo, or "flying"—and concretely-real hallucinations of animals, most typically enormous, many-colored cats and birds. I figure this is some limbic-system imprint our remotest evolutionary ancestors developed, back when we were lemurs hurtling through the East African treetops and cats and birds were our worst enemies.

*continued over*



MILTON KNIGHT



# ONE MAN'S DOPE

continued from previous page

Survivors of mandrake intoxication also typically vaguely recall communicating with other people, in those faraway realms to which they were flown by the drug. For this reason, throughout history the *Solanaceae*—mandrake, Jimsonweed, henbane—have been greatly prized by witchdoctors the world over, who use them to go into trances to talk to their gods, or to their ancestors, or whomever they conceive those faraway voices to be. The liveliest descriptions of this sort of thing can be found in the rambunctious *Don Juan* series by Carlos Castaneda, whose eponymous *brujo* shaman continually scarfs up Jimsonweed potions, and then goes flying through the night sky with great colorful jaguars and gerfalcons, and always winds up gossiping with his ancestors. Other shamans have claimed to be able to locate lost or stolen valuables, for a fee, under the influence of the belladonnas—and it works like a charm, too, especially when the *brujo* is in league with the neighborhood burglar-fences.

In the Holy Bible, mandrake several times pops up in a distinctly *aphrodisiacal* context. In Genesis, the youthful patriarch-to-be Reuben supplies his mother Leah with a batch of specially-handpicked mandrakes, so that she can whip up an alchemical preparation that will empower the aging Jacob to get another manchild on her. "Thou must come in unto me," she admonishes the old man firmly, "for surely I have hired thee with my son's mandrakes." Later on, in *The Song of Songs*, mandrakes figure prominently among the elements of that most erotic honeymoon hymn: "The mandrakes give a smell, and at our gates are all manner of pleasant fruits, new and old [fermented, that is], which I have laid up for thee, O my beloved."

How people could use the belladonnas as aphrodisiacs is pretty puzzling in view of their antihistaminic properties; presumably only the *man* imbibed the magic potion, because it surely would have rendered the woman dysfunctionally dry for ordinary intercourse. On the other hand, people's reactions to drugs are overwhelmingly conditioned by what they expect to happen—if these folks were told that mandrake would enhance their sex lives, and believed it without question, then inevitably the drug would have that effect.

In any case, howbeit soever, the people in Europe were still doing mandrake as a sex potion well after AD 1500, when Niccolo Machiavelli composed a rather wonderful bit of stage bawdry called *La Mandragola* (The

Mandrake's Song), to raise bail to get himself out of prison. Machiavelli suffers from a grossly unjust reputation in our society; you actually have to read his masterpiece *The Prince* to apprehend what an infinitely sweet and funny person he was. *La Mandragola* is another item entirely—a spicy little sex farce (it was made into a spicy little Italian movie in 1966) revolving around an elderly Florentine moneybag's anxious endeavor to get himself a male heir on his beautiful young wife by dosing her with a mandrake potion. The point in doing this was not to make her horny, evidently, but to alleviate her barrenness. This was a hangover from Medieval magical thinking, in which physical similarities account for everything—the mandrake plant happens to have an "anthropoform" root, shaped like a little man or woman, with bifurcated legs and little stunted arms. Thus pulling a mandrake root out of the earth was equivalent to giving birth, and so therefore eating mandrake could imbue one with the power of giving birth for real. And it was precisely to wipe out this sort of superstitious logic, and replace it with superstitions all their own, that the clergy after the

Middle Ages instituted their Inquisitions.

Now, by the time *La Mandragola* came out, the good prosecutors of the Inquisition were already torturing out classic, fullblown Black Sabbath confessions: the mandrake goes onto the broomstick, the broomstick goes up the pussy (or the tush, in the case of warlocks), and this abandoned criminal goes flying around the world accompanied by magic animals, and winds up in infernal communion with sundry spectral parties—Lucifer, Azazel, and all of them. So I do suspect that for some good long time before 1500, ecclesiastics of various sorts in Europe were resorting to magic broomsticks to spice up their otherwise-intolerable experience of life in the cloister.

continued on page 25

## HOLLAND TOUR

East Coast Hydroponics is currently organizing the "Too Bad We Have to Leave the Country to Talk Tour" with host Ed Rosenthal. Spend one week in Amsterdam. The cost is only \$950, which includes airfare and hotel. The tour will depart the first week in September. For more info, call 1-718-727-9300.

## A FIELD GUIDE TO NORTH AMERICAN CONSERVATIVES

BY JOE BARTOS

# The Conservative Life Cycle *Part II*



## Childhood

As a child, the young conservative learns to identify different types of minorities and what type of firearms to use when dealing with them. The youngsters receive additional training when playing such neighborhood games as "smear the queer," "rape the poor," and "tie a rope 'round ol' black Joe."



JON GETTMAN

NORML  
NATIONAL DIRECTOR

# NORML-IZER

## COCAINE IS NOT THE ANSWER

In February of 1988 the Attorney General of Colombia suggested that legalizing cocaine might be the only way to put the black market in cocaine out of business.

I disagree. I provided *El Herald*, the Spanish edition of the *Miami Herald*, with the following statement:

"Legalizing cocaine is not the answer. Legalizing marijuana, as the National Association of Financial Institutions of Colombia suggested in 1980, is.

"Marijuana contains a non-toxic drug—THC. An overdose of marijuana produces sleep, not death. The prohibition of marijuana alienates 50 million Americans from cooperating in the fight against cocaine abuse and other drug abuse problems. Legalizing the \$50 billion a year marijuana business provides a cash crop for our hemisphere, financial revenue for government, and increased popular support for anti-drug abuse programs. Perhaps with these new resources the *narcotraficantes* can be neutralized."

I am accused of hypocrisy by some for claiming that marijuana should be legalized and that cocaine should not. In fact, as the failure of the Reagan drug program became more evident early this year, several critics recommended legalizing or decriminalizing all the illegal drugs. Suggestions such as these demonstrate how little anyone has learned from the last twenty years.

The biggest mistake of the current approach to drug policy is to group dissimilar drugs together into one category. The only thing marijuana and cocaine have in common is that they are illegal. In fact, most marijuana smokers dislike cocaine, and vice versa (alcohol is the favored backup drug to cocaine users, it supposedly takes some of the "edge" off the high). NORML's opposition to cocaine legalization, though, is based as much on practical analysis as it is on the sentiments of our members.

People are far too uneducated about the drug to handle it responsibly. Cocaine was used by small populations during the 1970s without much of an abuse problem



ERIC DROOKER

developing. In the 1980s, though, when cocaine became widely available and excessively more potent, cocaine abuse became a gripping reality for millions and millions of Americans.

Potency is not a safety issue with marijuana because of its low toxicity. Again, an overdose causes sleep, not death. The danger of a life-threatening overdose is nonexistent.

Cocaine, though, is another matter. As college basketball star Len Bias tragically discovered, the margin for error with cocaine use is pretty slim. One overdose is all it takes to produce death.

The primary concern for allowing availability of a drug is its potential for serious side-effects and/or its life-threatening characteristics. Marijuana can meet that standard. Cocaine cannot.

Frankly, the idea of legalizing cocaine is too radical for our social system to absorb in the near future. It is going to take time for our society to backpedal away from the hysterical and counter-productive attitudes we've had about drug control. Even if cocaine could be legalized and an appropriate educational program designed to minimize abuse, the public is unprepared to assimilate the concept. I'm concerned with our society's ability to

manage social change. A move to legalize cocaine would create divisiveness and confusion which would hamper any attempt to create a national consensus.

Intellectually it is easy to justify a proposal to legalize all drugs. However, the so-called progressive ideal of disinterested experts forming public policy based on proper intellectual positions is what created prohibition in the first place. Social policy, though, should be based on *experience*, not mere ideas.

Doesn't our experience with the illegality of marijuana suggest that the illegality of cocaine is counter-productive? No, I don't think so. The safety issue is one strong argument in support of my position. Also, our society's experience with marijuana shows that its use is relatively benign, whereas our experience with cocaine shows serious problems accompany widespread cocaine availability.

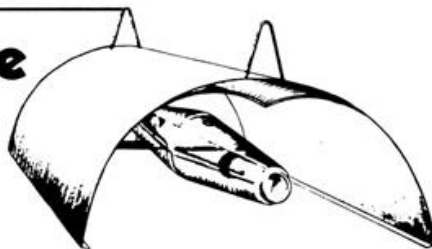
Perhaps I am wrong. In that case, the legalization of marijuana would provide our society experience with implementing a new drug policy from which we could draw upon to devise an effective anti-cocaine policy.

Personally, I speak from my own experiences with cocaine. I haven't taken any

*continued on page 29*



## It's about time Florida got some help with the sun.



Operating the most successful grow shop in the midwest, you get to feeling sorry for folks in the deep south. All that beautiful sunshine going to waste with no reputable supplier of growing necessities to help them take advantage of it.

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## FLASHES

### MEDELLIN MONARCHS

According to a recent report in the extremely reliable *Weekly World News*, South American drug lords are fighting a losing battle against swarms of butterflies that have gobbled up \$37 million worth of local coca plants. Crusading police officials are planning to unleash more of the coke-crazed bugs soon.

### JUST LIKE GRANDMA OWSLEY USED TO MAKE

Prison officials in Spokane, Washington report that after six weeks of extensive laboratory testing, a suspicious dot found on a letter sent to an inmate awaiting trial for murder was probably gravy and not LSD, as had been suspected. Raw-tongued postal employees were said to be disappointed, while inmates tired of receiving slimy letters from home were relieved.

### COLOMBIAN ROULETTE

Luck was not with 26-year-old Everton Reid recently, as he waited for his luggage to appear on the carousel at the Raleigh-Durham (North Carolina) Airport. Just off a flight from Miami, Reid apparently noticed police officials fish-eyeing his bag, so he quick-thinkingly picked up a smaller suitcase left unclaimed from an earlier flight, and tried to stroll off. He was stopped, and when he couldn't adequately explain why the name on the bag he was carrying didn't match his ticket, police opened it, and found a pair of shoes, a hair-dryer, a comb, and—well, lookie-here!—a bag of marijuana. When police opened Reid's actual bag, they found—no how did this get in here?—ten ounces of cocaine. The luckless courier pleaded guilty to two counts of coke trafficking, for which he faces a possible twenty years in the joint.

### SCHOOL'S OUT, ELEC- TORAL COLLEGE'S IN

Rock star/snake-handler Alice Cooper (real name: Vincent Furnier) has announced that he is "definitely a write-in candidate" for governor of his home state of Arizona. Phoenix-born Cooper, who last threw his top hat into the political arena during the 1972 presidential campaign (hot on the heels of his single "Elected"), said "I represent the Wild Party, and I even have a campaign slogan: Alice Cooper—A Troubled Man for Troubled Times." Arizona could do worse—Republican Governor Evan Mecham, who took office in January '87 (and immediately rescinded Martin Luther King Day as an official state holiday) was recently impeached after coming under indictment by a state grand jury for attempting to conceal a \$350,000 campaign loan. ●

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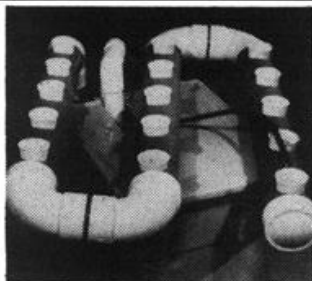
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# ONE MAN'S DOPE

continued from page 22

The broomstick would be the first obvious thing, especially in a nunnery, wouldn't it? As long as there have been nunneries—populated by sweet, slender young teenage novices and fully mature, prime-of-life women, all cloistered together away from men—you know there must have been major broomstick problems. And in monasteries too, for sure: a significant percentage of persons of both sexes have always been curiously addicted to sticking things up inside themselves. And since mandrake was renowned in folklore for its alleged sex-enhancing properties, it would be only natural for some of these cloistered masturbators to whip up mandrake ointments and apply them to their broomsticks. And whether they employed vagina or anus, those tropane belladonna alkaloids would sweep through the mucous membrane straight into their bloodstreams, and off they'd go flying with their magic animals to commune with the faraway voices in their heads.

So you have to conclude that there were surely an awful lot of in-house broomstick investigations at cloistered religious institutions right from the beginning, ages before the Inquisition developed this concrete conviction that there were witches in the world, and the overwhelming obsession to identify and burn them. And in order to create those witches—to create the very evidence on which they were convicted and burnt—the witchcraft prosecutors just instinctively reached back into the ugliest secret shame of their cloistered institutions, and projected it all over these ordinary people, generation after generation. ●

## PISS PATROL

continued from page 20

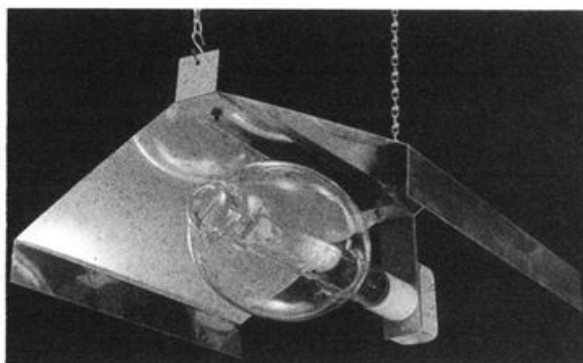
Another less-than-savory part of Control Data's policy is that they fire employees arrested and convicted for off-the-job drug offenses. However, this is true only for felony drug convictions—not just joint-smoking or DWI offenses.

This policy is much fairer than most of the others HIGH TIMES has reviewed. It seems actually concerned with helping those who have a problem, and not solely with weeding out druggies—although, unfortunately, it may discriminate against chronic potsmokers, who, even if they refrain for a few weeks, may still test positive. However, Control Data does not create a positive-testee blacklist that sits in company files for six months, a la Motorola. And it does try to help workers with actual problems, instead of just throwing them out onto the street. ●

# NOT JUST HORIZONTAL

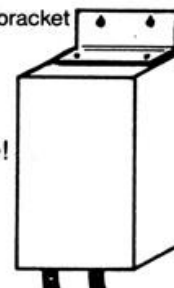
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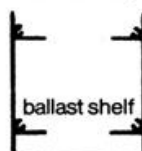
wall mounting bracket



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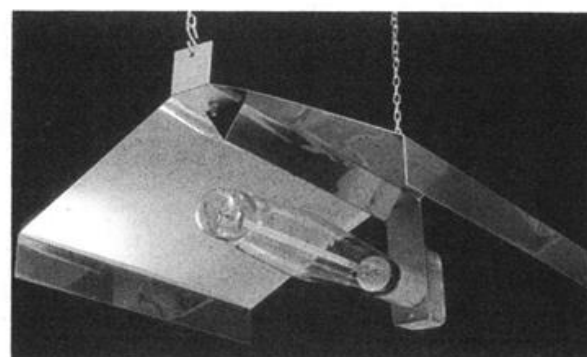
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# TRANS-HIGH QUOTATIONS

## MARKET

### Coronado, CA

Afghani #1 x Skunk #1 "in-fucking-incredible," \$250 oz.

Mexican *indica* "some of the best Mex in a long time; a real long stone," \$150 oz; \$300 ¼-lb; \$1000 lb.  
Crypto (an NL hybrid) "reminds me of hash plant; don't drive or operate heavy machinery—no shit" \$400 oz.

*Indica-sativa* "from Fallbrook; not as strong as I expected" \$125 oz; \$275 ¼-lb.

Commercial Mexican "quality varies widely; you get what you pay for" \$75 oz; \$200 ¼-lb; \$575 lb.  
California Orange "connoisseur smoke," \$185 oz; \$300 ¼-lb; \$875 lb.  
Mushrooms "fresh from Corvallis—Liberty caps," \$130 oz.

LSD: white blotter "from Ventura—could be a little cleaner," \$5 hit; \$150 sheet.

Cocaine, pink shale "rocks are unusually hard," \$100 gm; \$200 ½-oz; \$900 oz; \$15k kilo.  
Methamphetamine "solid glass rocks; pharmaceutical quality," \$60 gm; \$800 oz; negotiable lb.

### San Jose, CA

Crown commercial Thai, "decent quality, few seeds," \$160 oz; \$1800 lb.

Mexican *indica*, lime green, "great bang for the buck; small dense buds," \$125 oz; \$1400 lb.  
Mexican green buds "very airy tops, immature but smokes good," \$85 oz; \$800 lb.

Indoor hydro grown *indica-sativa* "electric and aphrodisiac high; it's almost too potent" \$15 gm.

Afghani hash "looks and tastes great but little buzz; don't get burned," \$10 gm \$900 lb.

### Pomfret, CT

Black Hawaiian hash "kick ass; super high," \$10 gm; \$250 oz.

Red-haired Sinse "mellow high," \$45 ¼-oz; \$160 oz.  
"Shrooms" "good trips; fresh from the zoo," \$45 ¼-oz; \$150 oz.

Cocaine "good rock, good count, good blow!" \$300 ¼-oz.

### Melbourne, FL

Sinsemilla "all bud," \$35 ¼-oz; \$875 lb.

Sea Weed "smells and tastes like bong water but it does the job," \$65 oz; \$20-30 ¼-oz.

Palm Bay Homegrown "tasty," \$65 oz; \$30 ¼-oz.  
LSD, Blotter "very hard to find," \$7 hit.

Cocaine "lots around, try before you buy," \$75 gm; \$200 ½-oz.

Satellite Beach Sinse, "faithful," \$120 oz; \$40 ¼-oz.

Melbourne Homegrown "very clean, smooth and sweet," \$130 oz; \$40 ¼-oz.

### Port St. Lucie, FL

Skunk Buds "strong smell, excellent buzz," \$40 oz; \$40 ¼-oz; \$400 ¼-lb.

Green Jamaican "very stoney, good smell, very sweet," \$100 oz; \$35 ¼-oz; \$325 ¼-lb.

Brown Buds "when you are desperate," \$70-80 oz; \$25-30 ¼-oz; \$225 ¼-lb.

LSD: white blotter globes, gold stars, musical notes, "blows you away every time!" \$6 hit; \$300 100.

HIGH TIMES "always a good buy," \$3.95 each.

### Carbondale, IL

Red-hair Sinse "available everywhere; real nice buds, with a real good buzz," \$110 oz; \$30-35 ¼-oz; \$1200 lb.

Brown Colombian "same boring stuff," \$20-30 ¼-oz.  
Acid "zillions of different blotter available, but I want some good shit," \$3-5 hit; \$150-250 sheet.

Shrooms "real good 4-5 hour trip," \$6-10 gm; \$30-40 ¼-oz.

Cocaine "very good wire, best I've had in a while; lotsa rocks!" \$100 gm; \$250 ½-oz; \$450 ¼-oz.

### Albion, IN

Homegrown skunkweed "great," \$35 ¼-oz.

Pressed Colombian "excellent buzz for work or fuckin' around," \$40 ¼-oz; \$120 oz.

Colombian brick weed "paralyzing buzz," \$40 ¼-oz.

Brown Sinse "mystery pot; good buzz," \$40 ¼-oz.

Brown mystery weed "kicks your ass and spits in your face," \$45 ¼-oz.

Shrooms "awesome natural trip," \$8 gm; \$50 ¼-oz.

Black hash "good shit," \$9 gm.

LSD: black and gold stars "pretty clean stuff," \$7 hit.

Send quotations to: THMQ, 211 E. 43rd St., New York, NY 10017. THMQ is intended solely for informational purposes. All entries should be typed or neatly written: If you are unable to compose a legible entry after testing your samples, please wait until you have control of your penmanship before sending us your information. Marijuana is listed by ¼-ounce, ounce, ¼-pound and pound prices only. Don't bother sending prices for hard drugs. Prices in this issue are current as of March 16th, 1988.

Cocaine "70-80% pure—gets you off!" \$100 gm.

### Hart, MI

Red-haired Sinse "long buzz" \$30-35 ¼-oz.  
LSD: album covers "real good stuff" \$4-5 hit.

### Minn./St. Paul

Killer Mexican "good stoney high," \$30 ¼-oz; \$100 oz.

Brown hash weed "sweet, hashy taste; up high," \$35 ¼-oz; \$125 \$35.

Brown hash "very moist, rare; sells fast," \$10 gm; \$125 oz.

R.A.V.O.T. "seedy buds, lotta shake, but still gets you off with one joint," \$35-40 ¼-oz.

Mushrooms "very dry, very high," \$10 gm; \$240 oz.

### Pike Co., MO

*Indica* Ganja cross "smells; hound dog eyes; gives a big ol' kype (kype: to get high; a buzz)," \$45 ¼-oz.

Colombian/Big Leaf ganja cross, "dead dog dope; been through hell but it still kypes!" \$70-100 oz.

Killer Green "excellent, not worth the price," \$130 oz.

Seeded Hacker "creeper; killer kype; big bags needed for planting time," \$80-100 oz.

Wintergreen Buds "killer kype," \$150 oz.

Afghani/Jamaican Brown, "gooner; imported; extreme buzz," \$200 oz.

Sinse/Ganja cross "dense and aromatic," \$100 oz.

Pure Missouri Sinse "stoned," \$100 oz.

Skunk Cedar Buds "hard to get, but well worth it; comatose," \$120 oz.

Top Secret hybrid cross "the original hard to get Pike Co. paralyzer," \$120 oz.

Poly Blue Bud "too much resin; buzzzz," \$130 oz.

LSD, Black Pyramids, "kind of weak; laughter," \$5 hit.

Cocaine "ether base; 90% pure," \$25 ¼-gm.

### St. Louis, MO

Homegrown "seedy; big buds; lime green; good high; skunk smell," \$40 ¼-oz; \$150 oz; \$1100-1200 lb.

Brown Mexican and Colombian "red hairs; dirty taste and smell; some seeds; good high; no munch; bricked or buddy," \$40 ¼-oz; \$150 oz;

\$1300-1400 lb.

LSD: double dipped blue blotter "great buzz," \$5-7 hit; \$250 100.

Mushrooms "real ass kicking," \$25 (wet), \$35 (dry) ¼-oz.

Cocaine "haven't seen any lately," \$300 ½-oz.

### Asheville, NC

Orange-hair *sativa*, "postal from FL—dense, moist buds; transparent high, very clean," \$75 ¼-oz.

Tennessee Green "picked early; moderately stoney but a good 3-hit high," \$120 oz; \$35 ¼-oz; \$1300-1350 oz.

Local brown *sativa* "tons around, standard party smoke—dumb high, stoney nights," \$100 oz; \$30 ¼-oz.

LSD: blotter "old; won't disappear," \$5-6 hit.

Shrooms "free if u pick 'em; otherwise easy to buy," \$5 gm.

### New Bern, NC

Killer Hawaiian "buds and leaf," \$100 oz.

Skunk "one toke!" \$160 oz.

Local Indoors "tastes almost menthol; good buzz; goes well with cartoons," \$125 oz.

Thai Weed "people are quite proud of this," \$65 ¼-oz.

### Paterson, NJ

Arizona skunk "scarce; ½ joint and you're stoned" \$40 ¼-oz.

Green bud "long ride to get it but worth the trip" \$30 ¼-oz.

Red-haired sinse "good buzz; no seeds" \$50 ¼-oz.

NYC weed "tastes like shit; nice count" \$20 ¼-oz.

Homemade hash "no buzz; don't waste your money" \$10 gm.

LSD: clown, red stars, \$4 hit.

Purple mescaline "good trips" \$3 hit.

### West Seneca, NY

Dark green sinse "few seeds and satisfying" \$30 ¼-oz.

Crack "tasty and rare" \$25 ¼-gm; \$100 gm.

LSD: double print "a twirly tale; great!" \$3-4 hit; \$100 sheet.

### Reno, NV

Thai "two-toke dope; best yet in Reno," \$65 ¼-oz; \$220 oz.

Thai "better than average," \$65 ¼-oz; \$200 oz.

Black oil-based hash "hard to find but worth the look," \$10 gm; \$55 ¼-oz; \$200 oz.

Bolivian coke "major kick-ass; close as you can get to pure," \$175 gm.

Purple "shrooms" "good trip but not worth the look or the price," \$10 gm; \$55 ¼-oz.

### Columbus, OH

Afghani Hindu Kush *indica* "from the hash plant in the Khyber Pass region," \$240 oz.

Cylinder-shaped pressed *sativa* "very sweet and aromatic with an intense stoney buzz," \$160 oz.

Cocaine "100% rocks, 94% purity; definitely from Peru," \$100 gm; \$1800 oz.

### Allentown, PA

Skunkweed "PA's best; one hit and you fly," \$220 oz.

Acid: clown "good shit; check yourself into a psycho ward," \$4 hit.

"Shrooms" "shrooms zoom zoom," \$10 gm.

Black Hash "I've smoked better," \$10 gm.

Cocaine "rocks—lots of them," \$80 gm.

Sinsemilla "one bong hit and you're toast," \$120 oz.

Lumbo "shit dope; lawncuttings got me higher," \$55 oz.

### Beaver County, PA

Green red/orange haired semi-sinse to pure Mexican sinse, \$1200-1500 lb.

Mexican Skunk/*indica* "killer taste," \$1700-2000 lb.

Commercial Thai "good power; rich like Colombian of the old days," \$1700 lb.

Brown Mexican Sinse, \$1100 lb.

### Reading, PA

Red-haired Jamaican bud, "scrape me off ceiling!" \$35 ¼-oz.

### Harrisville, RI

Hawaiian "pure *sativa*, smells fruity," \$250 oz; \$2400 lb.

Skunk #1 "great shit," \$200 oz; \$2000 lb.

Thai sticks "dreamland," \$65 one.

Afghani "mega body buzz," \$190 oz; \$2000 lb.

LSD: 15 different types, \$2-5 hit.

Cocaine "94% pure; super brain frying shit," \$250 ½-oz.

Crystal meth "clean and sparky; good price," \$50 gm; \$130 ¼-oz.

Shrooms, \$7-9 gm.

### San Antonio, TX

Skunk "A-W-E-some!" \$35 ¼-oz.

Mexican Sinse "good and sticky," \$30-50 ¼-oz.

Homegrown dirtweed "might as well flush it down the toilet!" \$25 ¼-oz.

LSD: clownface "goofy and weird," \$5 hit.

Musical note "at least 13 hours," \$5-6 hit.

Shrooms "wow!" \$6-7 gm.

Cocaine "risky to get," \$100 gm.

### Lorton, VA

Slightly seeded *sativa* "stonin' smoke" \$35-40 ¼-oz; \$120-130 oz;

\$1200-1600 lb.

Hash "sorta rare" \$40 ¼-oz.

Shrooms "price goes down if quantity goes up—way down!" \$35 ¼-oz.

Coke "buy quantity, go yellow" \$275 ½-oz.



# TRANS - HIGH MARKET LETTERS



## CONNECTICUT

**Right on to the letter by the Coca Bolas!** White powder coke is the biggest ripoff—unlike marijuana, which is a fair value. I have nothing against cocaine per se, and have always wondered that if its weird white powder form and use was so great, then how come caffeine users don't snort crushed up Vivarin pills?! Fuck Ronald Wilson Reagan's goons wherever they are, boycott their cracked up PERVERSIONS of Coca's stimulant (an inherently far better stimulant than caffeine) and grow Mama Coca yourself for your own real fine wine.

**Gatekeepers of God's Green Plants  
Greenwich, Connecticut**

## FLORIDA

**Let me start off by saying that I'm employed by the U.S. Government.** You might say my job is one of research. Others and I grow and harvest cannabis for Uncle Sam. Our primary goal is to find ways to wipe out cannabis without destruction of other plants or lives.

The chemicals we develop are first tested in the lab and if the results are fair (meaning less than 20 lives—animal or human—will survive if consumed) we test it on our national forests to help fight the unwanted growers. Uncle Sam figures that national forests are all his and he can test any chemical he chooses on them. I do not know exactly where it is used but I have seen and read test documents from areas that have been sprayed. Nothing ever becomes of any deaths because they are blamed on a bad batch of marijuana.

It would turn your stomach if you knew the severe pain and suffering that an animal or human would experience if they consumed some of the chemicals we have developed. Some of these chemicals have been sprayed at night on and around small towns. I'm told no one notices this because the chosen towns have mosquito control equipment that draws no attention.

I wish you could see the money and the equipment our Uncle Sam has put into growing marijuana. The best part is we have been sent copies of your magazine so we can use the growing tips.

There have been tours made of our lab and some very important people in our government have been there. We have found that there are good medical uses for cannabis, but to qualify you must be an important person. Funny, isn't it, that

the American public pays for it but cannot use it even if it saves lives?

I just wonder if any of the chemicals I've developed have ever been used to harm anyone. I sincerely hope not. The money used here could take care of a lot of homeless and feed their families. The medical uses could save a lot of lives—not just a special few. The government has become obsessed with finding out who is growing large crops so they can make a big show. They only have to look in the mirror to find the real criminal.

I will try to send you proof of this lab. If you have any questions, I will try to answer them. Just print them in your letter column to "Professor Cannabis." It will be hard to be very specific but I will try my best to answer.

**Sincerely,  
Professor Cannabis**

## MAINE

**Some of your readers are really fucked.** I was reading THMA in the March issue and the "MORE Brother's Assoc." cut down the use of coke! People who don't use coke should not praise the gov't. for busting us. That's the same as someone who drinks cutting down people who smoke pot. Get your fucking heads out of the clouds. Three letters later, "Jolly Green" touches on that same subject. But "Jolly Green" knows his shit. I stopped snorting coke a long time ago, but that doesn't mean I don't still use it. I've been drinking it, just like "Jolly Green"! Remember—if we don't stand together, we will all hang separately. I don't take every drug that's available. For instance, I stay away from opiates, but I don't put down people who use them. If we don't stick together, we're just as bad as the hypocrites who put all of us down. Incidentally, when the Gorbachevs came over here did you catch the part where Nancy talked to Raisa about the "drug problem" over COFFEE (caffeine)!! Where the hell do you double standard people get off?

**Totally pissed off but  
loving my brothers and sisters  
Bath, Maine.**

## MINNESOTA

**SMOKERS UNITE: I've been reading your magazine for 2 years and I've got to say that I'd never be able to do it without your mag.**

I started a few times before I'd ever seen your magazine and all I got were some scrawny, short plants that never lived to maturity. In the past 2 years, I've tried everything I've seen in print about improving my crops. I've taken notes and tried a few of my own experiments and I've got a couple of tips of my own. I'd like to suggest to your readers that they get more involved with the magazine and to send in more photos and letters, and also to send in their membership dues to NORML, a very worthwhile cause. If we really do want to see the legalization of marijuana for personal use, we've got to all do our share, or that dream will never become reality.

It's easy to see that everyone at HIGH TIMES is doing their share, and I'm proud to say that I'm a

member of NORML, and a subscription holder, and a very prosperous grower and I owe it all to a fine group of people who feel strongly enough to give their time and effort to a cause they believe in. There isn't enough dedication on behalf of the marijuana smokers as of yet. If you don't think you can really make a difference, think again—you can. If nobody thought they could make a difference in the eye of the public, well, you wouldn't be reading such a fine magazine right now, would you? Let's all unite and send a letter to your congressman, or give financial support to NORML or OMI. We've got to start somewhere, right? Keep up the good work, and you'll be hearing more from me in the future.

**Bilbo Baggins  
Farmington, Minnesota**

## OHIO

**I would like to issue a challenge to all those heads out there who use this fine green herb the "Ganja Gods" gave us.** You're all complaining that you would like to see something done, so here's your chance. Be like me next time you harvest an indoor or outdoor crop—donate the money you get from one of your 1/4-oz sales to the cause. If you're not a grower and just a user then only buy 2/3 what you normally buy and donate the rest to the cause.

Me and a bunch of my friends are talking about starting a chapter of NORML in our area, if we can get enough interested parties.

Hell yes, we're scared of losing our jobs and our friends who are not heads but if we don't stand up who will?

**Getting high with happy friends  
South Eastern, Ohio**

P.S. Keep up the good work and may you be high and happy.

**1987 proved to be a very devastating year.** I didn't get busted, but close to it. Thanks to the County Mounties, 131 beautiful ladies hit the incinerator!! It was my first attempt at growing that many and I had just yanked all my males. Ninety of those females were Hawaiian and the rest were Skunk; all were just starting to bud real pretty. But they didn't get them all. They left me a small five-footer. 1988 has got to be a better year for me. I'm planning on the same amount or more! Hopefully, growing will be legal real soon!!

**Stony Bud  
Spencerville, Ohio**

P.S. Keep up the Good Work HIGH TIMES. Your mag is great!

## NEW YORK

**I'm an outdoor grower in upstate New York.** Last year I was hoping to find some information about fly over dates in your magazine.

Are there any underground publications or is there anybody out there who knows about this?

Remember, this is an election year. Growers should be extra careful.

**C.M.  
Central N.Y. ●**



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## LETTERS

continued from page 14

### LSD DEFENSE

"The Last Defense of LSD," (February '88), wasn't, really. The article was just one more attack from one who doesn't understand what the acid experience was all about. There are many interesting theories about how the drug culture came to fall apart and leave us with a generation of yuppies who think Ron Reagan is the reincarnation of John Wayne, and Pat Robertson is Jesus. What the hell happened to the power of creative energy? Joseph Lanz hasn't got a clue. We might hope for better from HIGH TIMES.

—M.Y.

Paso Robles, California

I am in major disagreement with "The Last Defense of LSD" by Joseph Lanz. I got the impression he had a hidden agenda: the acceptance of his own homo- or bisexuality. (It did say at the bottom of the last page that he was also authoring a study on foot fetishism.) Lanz alleges that "borderline homoeroticism" was one of the core elements of psychedelic music. I strongly disagree. The point of hippie love-ins was to attain a more perceptive consciousness. Such higher clarity involves the upper chakra energy centers along the spine. Sex and violence come out of the lower (red) chakra, which is centered in the groin. At various love-ins and other LSD activities (at least the ones I attended), there was a strong feeling of trust, kindness, and tenderness. I feel this is what psychedelia was all about. It's gonna take a new generation of young people to revive this spirit.

—M.G.

Los Angeles, California

### BAD VIBES

What happened to the request for "No Bad Vibes Please" in the Top 100? Did you change the rules specifically for the people who don't appreciate the Grateful Dead? As far as I'm concerned, these people can suck slimy green donkey dicks. Why can't anyone just respect other people's tastes? All I can say is "ain't it a shame?"

—Dedicated Music Fan  
Waterford, Wisconsin

continued on page 76

## SPEEDBUD HYDROPONIC systems

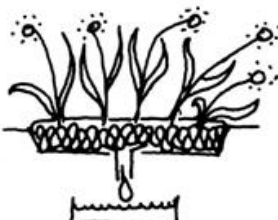
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# NORML-IZE R

continued from page 23

in a long time. I don't see it at parties, and most of my friends lost interest in it long ago. My friends and I all share memories of cocaine becoming an unwelcome obsession. We rejected it because we saw it making us greedy and self-centered, not to mention its outrageous cost.

Most marijuana smokers know a lot about cocaine, because they've observed its use for a long time. They oppose cocaine legalization for the same reason much of the public does: they've experienced cocaine and their reaction is "No thank you." Sadly, the War on Cocaine is one anti-drug program a majority of Americans would support, and make successful, if it were not for the case of marijuana prohibition.

When the "drug problem" is discussed nowadays, all the evidence provided concerns heroin and cocaine abuse, and to a lesser extent, PCP. Yet most of the tactics employed in the Drug War target marijuana smokers. Urine testing, for example, detects marijuana users and overlooks cocaine users on account of the biochemical trails each leaves in the body. Marijuana use can be detected a month after the fact, whereas evidence of cocaine use is only detectable three days after the fact. Consequently, even random testing misses most cocaine users.

Marijuana users resent being scapegoats for failed government policies to deter drug abuse. That resentment must be addressed if the United States is ever to have a successful drug policy. At present, no political leader has had the integrity to address that resentment, and the problems which stem from cocaine abuse continue to mount.

The legalization of marijuana would restore credibility and widespread support to the fight against drug abuse of all kinds. It would be consistent with our public policies for alcohol and tobacco. It would be a productive compromise.

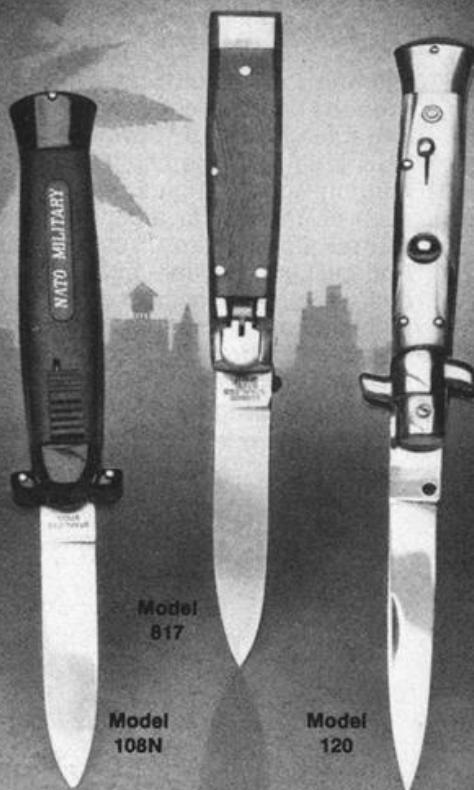
However, my critics are skeptical about my claims of marijuana smokers' disdain for cocaine abuse. I'd like to hear from you. Are you willing to join the fight against cocaine in exchange for the legalization of marijuana? ●

(REMEMBER: NORML's annual convention convenes this June 17 in Washington, D.C. For info on this, and also on how to join the fight against pot prohibition, contact: NORML, 2001 S Street NW, Suite 640, Washington, D.C.; phone 202-483-5500.)

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# HIGHWITNESS NEWS

continued from page 19

cal party. The "dirty war" has already caused over eight hundred deaths in the U.P.'s ranks over the last two years, including its leader Jaime Pardo Leal. The situation resembles that of Argentina's *guerra sucia*, as many Colombians have begun to "disappear", and prominent politicians, journalists, human rights activists, and even some popular entertainers, have received death threats. The new president, Virgilio Barco, has chosen to give the military a free hand in dealing with the peace negotiations with the guerrillas, while he concentrates on less complicated legal problems. Death-squad intimidation resulted in low voter turnout during elections last March as many U.P. supporters stayed away from the polls fearing reprisals. The leftist guerrillas who laid down their weapons to go legal (and subsequently face extermination) will probably come to the conclusion that the elections don't work and

that they must take up arms again. The military already sees the situation as a state of war, and with no solutions in sight the nearly forty-year-old conflict can only intensify.

But as if having a politically wrenched country with myriad armed insurgent groups and marauding death squads weren't enough, Colombia also has the cocaine moguls of the Medellín cartel. The natural offspring of an illegal business which has become Colombia's biggest export, the cartel—responsible for an estimated 70% of the cocaine entering the United States—has transcended being a mere crime syndicate into actually vying for power with Colombia's political oligarchy. Cocaine cash not only equips armies of assassins—such as those that recently murdered former Colombian Justice Minister Rodrigo Lara Bonilla—but also buys off entire sectors of the police, military, and political establishments. The names of opponents who are not for sale appear on death lists and are systematically eliminated, although a newcomer on the

political scene, the cartel's power is nothing to snort at. A few years ago the cocaine kings offered to pay off Colombia's \$11 billion foreign debt, and to blow the drug biz in return for an amnesty and guarantees against extradition to the United States. Only then did President Belisario Betancur hold his line and refuse the deal. More recently, the new Colombian attorney general's announcement that the legalization of cocaine will be considered is another reflection of the cartel's powerful leverage. Obviously, these sovereigns of snort are a force to be reckoned with, but they represent only one part of the overall Colombia picture.

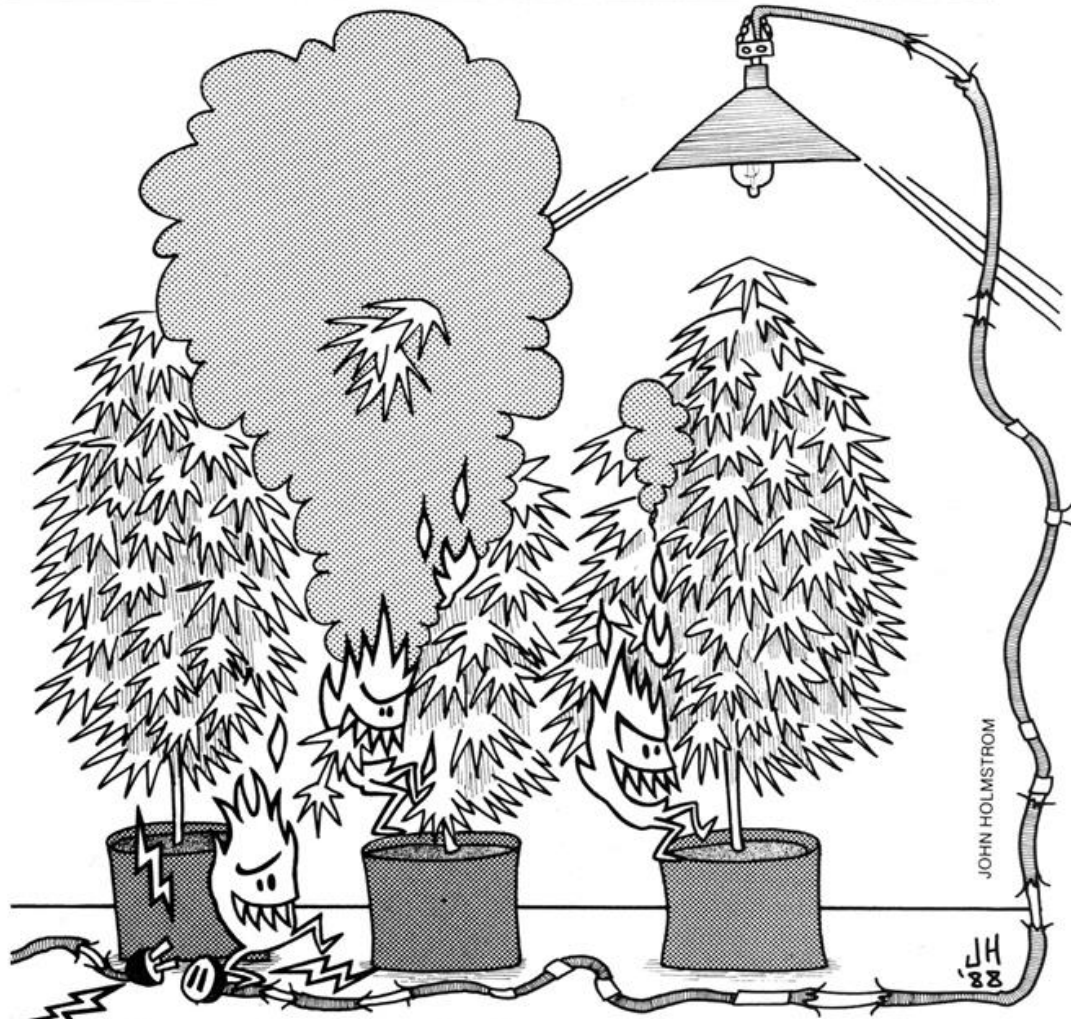
So many people have said that Colombia's democracy cannot survive, that it's become a cliché. But given the chaotic and violent situation, a radical change could come at any time and from any part of the political spectrum. And whether the government falls to guerrillas, cocaine, or a right-wing dictator, the transition will probably not be a peaceful one. ●

## FIREFIGHTERS STUMBLE INTO BLAZING BOO-BASEMENT!

Alaska firefighters are racking up a better record than local cops when it comes to uncovering this state's proliferation of indoor pot plantations. According to Wasilla Fire Chief Jack Krill, faulty amateurish wiring jobs are responsible for many of the fires that burn down electricity-intensive grow rooms here in the Land of the Midnight Sun.

"Guys go in and they splice, cut, and piece the wiring together," the Chief told reporter Julie Sullivan of Alaska's *Frontiersman*. "It's obviously not up to state standards."

Last December, fireguys tumbled onto a flaming grow room on Gail Drive in Wasilla, and turned over an estimated \$5,000 worth of marijuana to authorities. More recently, an alarm from a burning two-story house on North Birch Harbor Road brought firefighters into an inferno-hot basement grow room festooned with 62 large pot plants. Thanks to the building's fire-containing slab tin roof, a "flash-over" occurred—which means a heat buildup of such intensity that a room's contents spontaneously burst into flames. "It was between 600 and 1,200 degrees in there," said Krill. Fire Officer Jim Malapanes suffered minor burns on his arms when the plastic sheeting that had been covering the plants melted onto him. Four hours later, after the fire was extinguished, Troopers were able to enter the house and fill four large garbage



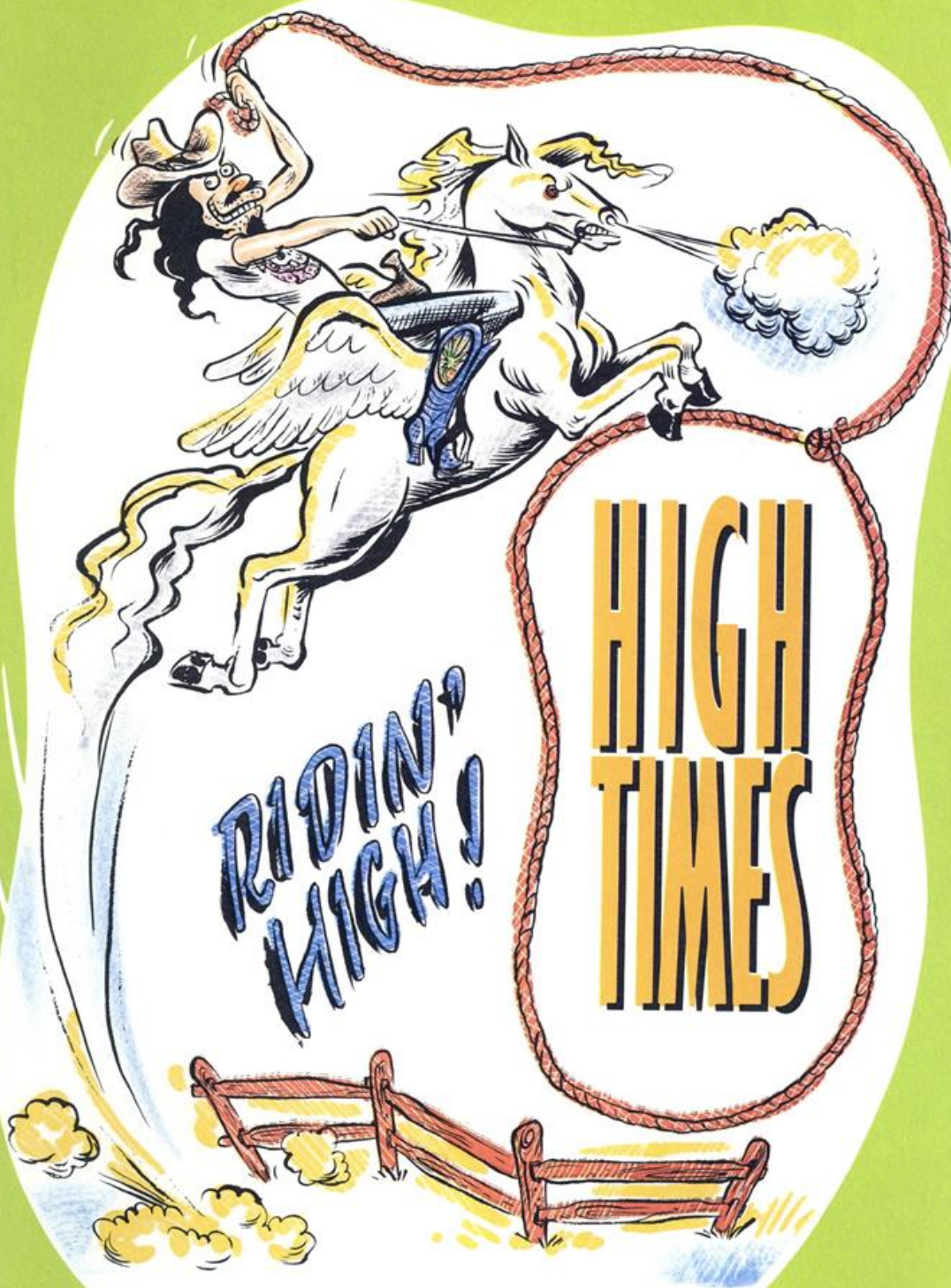
bags with contraband—comprised mostly, to their chagrin, of naked plant stalks, as the farmer had apparently just harvested his crop. Four pounds of smokable weed was recovered, however, which the lawmen slapped with a \$12,000 street value (good shit, evidently). No ar-

rests were reported. (Alaska state law permits ownership of up to four ounces of pot for personal consumption.)

All we can say is, in the interest of your safety (and your harvest's), watch those electrical hookups, boys and girls...

—LS





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# Heavy Metal

**A FAN'S PERSPECTIVE**

**BY ELIN WILDER**

THEY'RE USING "IRON MAN" TO SELL WATCHES!!! What the hell is going on here? Using the **Beatles** to sell sneakers is bad enough, but heavy metal to sell watches? Heavy metal music has always belonged to the fans. After all, who's kept it alive all these years? Not Madison Avenue, that's for sure. And certainly not the rock critics, who trash it every chance they get. Think about it—

they've been saying it was doomed from the start, right?

The roots of heavy metal go back twenty years ago, when the critics cracked all over **Blue Cheer** for playing "Summertime Blues" louder than any band had ever played before. But those guys had only 24 speakers hooked up to six amps! And then there was **Iron Butterfly**, who took flack for the first drum solo on "In-



*Lemmy of Motorhead, the originators of speed metal.*





MICHAEL PUTLAND/RETNA

*John Paul Jones, Jimmy Page, and Robert Plant of Led Zeppelin.*

A-Gadda-Da-Vida". But that ended up as one of the biggest selling records of the sixties. Meanwhile, the **MC5** played their first gig at the Fillmore East, and **Steppenwolf** was revving everyone up with "Born to be Wild". It was the start of something.

Nobody really knew what to expect in 1969 when **Led Zeppelin** came out of nowhere with their first album; at the time "Sugar, Sugar" by the **Archies** seemed destined to become record of the year. Critics wrote **Zeppelin** off as Britain's answer to **Grand Funk Railroad**. (Is the criteria for becoming a critic stupidity, or what?)

The kids knew better. The album charted soon after its release, and **Zeppelin's** first tour established them as one of the top live acts in the world.

Among fans and rock historians there is still a long-standing argument about which band was responsible for heavy metal: **Deep Purple**, **Led Zeppelin**, or **Black Sabbath**. I'm not going to choose one over the other, I'll just lay it out as it happened.

By mid-1969, **Led Zeppelin** had a hit on their hands and were in the process of creating another with *Led Zeppelin II*. **Deep Purple** had already established themselves in the states with three successful records, including *Shades of Deep Purple*, but back home in England, they were virtually unknown. During the summer of '69 they decided to change that.

First off, Blackmore and company decided to make a few changes in their lineup: Ian Gillian (vocals) and Roger Glover (bass). The changes in **Deep Purple's** style and sound was almost immediate. While the new band was still rehearsing, Jon Lord put together a concerto for rock and symphony orchestra, with a little help on lyrics from Gillian. The piece won them a standing ovation and the respect of several rock critics. By the time the band completed *Deep Purple in Rock* (1970), they had become a force to be reckoned with. The band toured incessantly over the next two years, and bombarded their fans with records, while its members still found time to devote to outside projects (like Ian Gillian's lead vocals on the *Jesus Christ Superstar* album). By the time *Made in Japan* (1973) was released, *Machine Head* had

been on the charts for 66 weeks, and in the top ten twice. The only question that plagues me is: How did people learn how to play the guitar before "Smoke on the Water"?

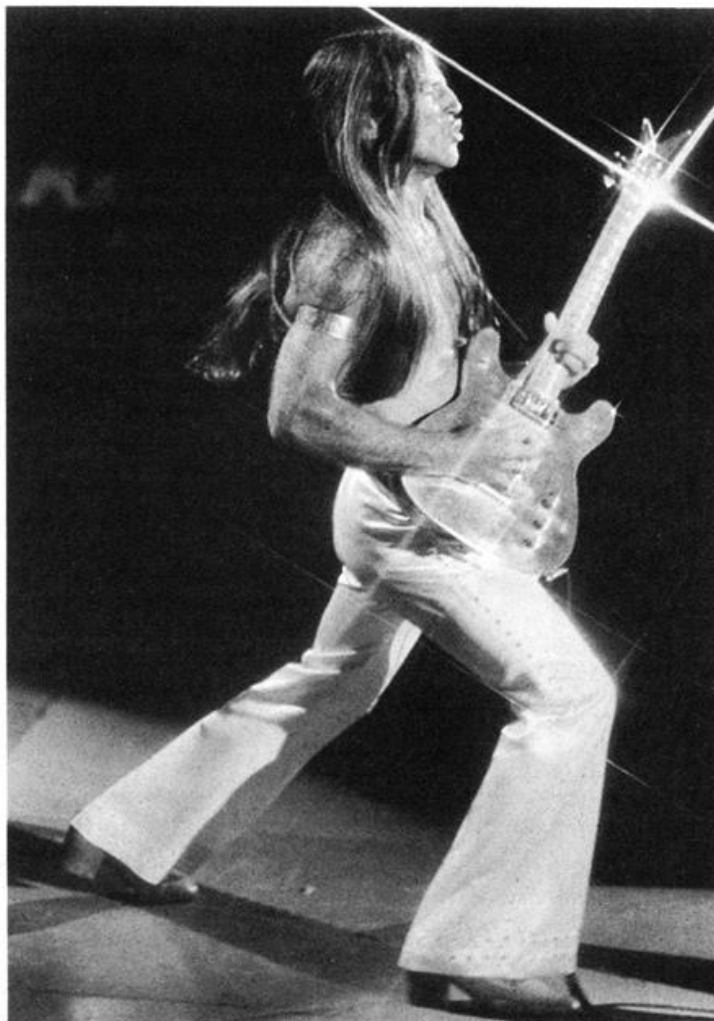
So, while **Deep Purple** was getting their act together, and **Led Zeppelin** was jamming the charts with "Whole Lotta Love", what was **Black Sabbath** up to? They were still calling themselves **EARTH!** It wasn't until the Christmas of 1969, after watching a Boris Karloff flick, that Ozzy, Tony, Geezer and Ward decided to change **Earth** to **Black Sabbath**. They were decidedly the worst or best thing anyone had ever heard, depending on who you asked. The critics hated them from the start, avoiding them in print and in person, but the fans couldn't get enough, and the band charted the first time out with *Black Sabbath*. They were succeeding through word of mouth, and Ozzy Osbourne endeared himself to fans by making up in personality for what he lacked as a singer.

Then came *Paranoid* (1971), the album that put them over the top. With its two hits, "Paranoid" and "Ironman", the album made the top ten within a few weeks after its release. **Black Sabbath** had three albums on the charts in the summer of '71 when *Master of Reality* (with "Sweet Leaf") joined the first two. That same year fans helped Sabbath rank third on the Cashbox poll for Top Vocal Group of 1971. The single version of "Ironman" was then released, followed by their fourth, *Vol. 4*. It seemed the group parents feared the most was here to stay.

In 1971, while **Black Sabbath** and **Deep Purple** were pulling up the rear, **Led Zeppelin** already had two gold records and were about to get their third with *Led Zeppelin III*. Then *Led Zeppelin IV* hit the charts, and calls for "Stairway to Heaven" burned up the request line, making Album Oriented Rock stations more of a necessity, and confirming **Led Zeppelin's** place as Most Popular Group of the '70s.

There were other notable changes between 1969 and 1971, including the glut of rock magazines being published, most of them attempting to cash in on the success of *Rolling Stone*. Many of them have since disappeared (*Rock*, *Raves*, *Crawdaddy*) and others still plugging away (*Circus*, *Creem*, *Hit Parader*). The closing





*Mark Farner of Grand Funk (before he found God).*

of the Fillmores East and West marked the end of an era. Rock also moved from rock festivals to concert arenas, and arena tours became the way most heavy metal groups developed their followings, making it all the more important that bands not only get out there and play, but develop a real stage act.

**Led Zeppelin** was among those touring their asses off. They had appeared at most of the major festivals, including (believe it or not) Woodstock, and in the early '70s headlined a series of sold-out shows. It was a year **Led Zeppelin** broke all previous records when they sold out a Tampa football stadium. Also breaking house records was **Grand Funk Railroad**, who found themselves playing to packed houses at Shea Stadium where the famous **Beatles'** sellout performance took place only a few years before.

Yeah, **Grand Funk Railroad**. The same band that was considered a national health hazard by a consumer group because of their decibel range. They were considered the loudest band in the world, a power trio in the **Blue Cheer** tradition.

**Grand Funk Railroad** was also one of the first bands to defy a lack of press and sell gold album after gold album from fan support alone.

Some people might say that **Grand Funk** doesn't belong in an article about heavy metal. The fact of the matter is that they were one of the hottest bands around at the time, and one of the "heaviest". **Grand Funk** also proved themselves to be honorable, and proved it by putting their careers on the line. (If only today's rock groups held the same attitudes towards selling out...)

Management screwed with the group, trying to manipulate them into doing something they felt was a betrayal to their fans. The band fired their management, which led to a lengthy lawsuit that threatened to end their careers. It was rough going for a while. The band continued to meet their touring obligations despite financial hardship and harassment—management kept having the band's equipment confiscated right before they were about to go onstage. The band stood fast and eventually won their case, but had to shorten the name of the band to **Grand Funk**. As it turned out, their career was revitalized when they struck back with



*Worth their weight in gold records, Deep Purple was the heaviest of the '70s heavy metal bands. Shown here in their last reunion: (left to right) Ian Gillan, Glenn Hughes, Jon Lord, Ian Paice, Ritchie Blackmore.*





*Kiss Incorporated: (clockwise from top left) Gene Simmons, Paul Stanley, Peter Criss, and Ace Frehley.*

"We're an American Band", their first number one single.

The year 1972 brought something new into our living rooms and lives; the TV show *In Concert*, which featured **Alice Cooper** as their first headliner when the group was peaking. No more ticket panic, just get out a six-pack and groove with the tube. That was quickly followed by *Don Kirshner's Rock Concert* and *The Midnight Special*. (Where was VHS when you needed it?) These shows featured successful bands of the day and became a showcase for up and coming stars of the future (i.e. **Aerosmith** and the **Ramones**). Often the bands performed live, without the aid of tape or lip-synch. The popularity of these shows led to the first "made for television concert": *The California Jam* (1974), featuring **Black Sabbath**, **Deep Purple** and **Emerson, Lake and Palmer**, among others. Little did we know then that the nightmare of MTV lurked only ten years away. But that's getting ahead of things.

Heavy metal was riding the crest of a wave in 1973. Not only did established bands have mega-hits, but newer American and European bands were making their marks as well, proving that metal was a worldwide phenomenon. **Golden Earring** (Netherlands) had their first hit with "Radar Love," **Bachman Turner Overdrive** was thumping out "Let it Ride," and **Aerosmith's** "Dream On" was first released (it would be re-issued and become a hit in 1976). Meanwhile, **Deep Purple** was high with "Smoke On the Water," **Black Sabbath** was turning heads with *Sabbath Bloody Sabbath*, and **Led Zeppelin** headlined three sold-out nights at Madison Square Garden in New York (footage of those shows was later used in the feature film, *The Song Remains the Same*).

Two bands that were making a lot of noise, but not a lot of headway, were **Slade** and **Brownsville Station**. The British group **Slade** was the more formidable of the two with six number one hits, five gold albums, while not one of their singles didn't make the top twenty in the U.K. Both bands had the same problem—no one took them seriously. Maybe it was the way they dressed, or their album covers, or maybe it was just that no one got their jokes. Despite their image problems, the two bands have been rediscovered through cover versions of their material by '80s bands. **Quiet Riot** cut new versions of **Slade's** "Cum on Feel the Noize" and "Mama Weer All Crazee Now," and **Motley Crue** re-recorded "Smokin' in the Boys Room".

Two other important heavy metal influences are **The Pink Fairies** and **Hawkwind**. The **Pink Fairies** are long since defunct, but their hard-to-find records are still considered classics by most heavy metal connoisseurs. It's worth noting that Lemmy Kilmister of **Motorhead** played on **Hawkwind's** biggest hit, "Silver Machine," and that, after 18 years, **Hawkwind** is still going strong.

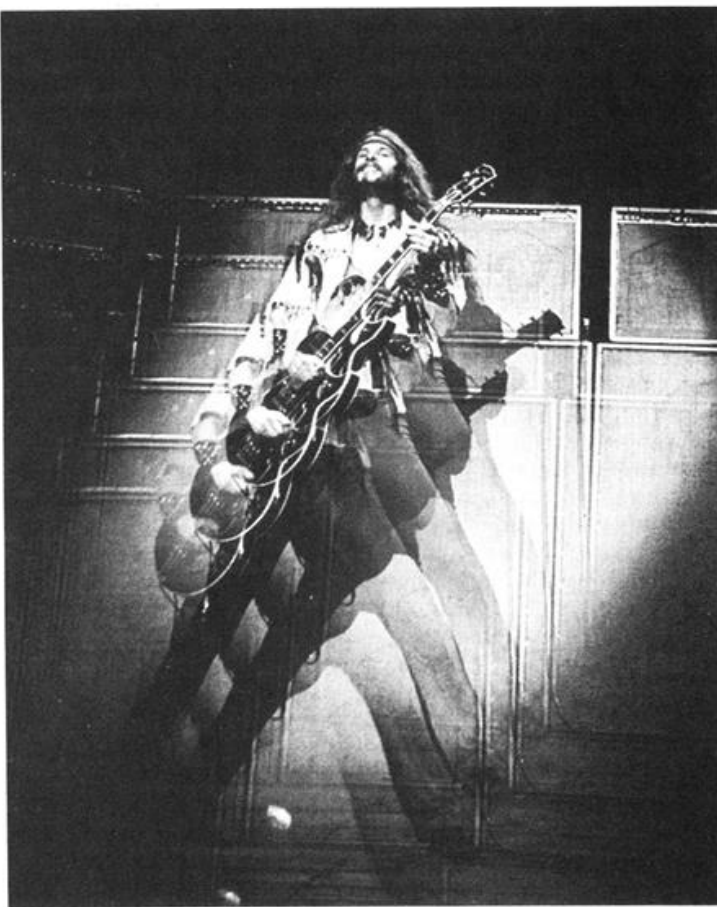
Then 1974 floated in, bringing two seemingly unimportant events: the above-mentioned *California Jam* and **Kiss**. How

could we have guessed then that underneath all that clown makeup these guys would still be ugly? Can't imagine. By the end of 1975, **Kiss** was a band turning into a mega-corporation as they took the country by storm. They changed the concept of a rock concert into a three-ring circus, complete with fire-breathing and flash pots. "Rock and Roll All Nite" became an anthem, putting **Kiss** over the top and everyone else under the seats. Before you knew it, there were **Kiss** dolls, patches, masks, lunch boxes, makeup kits, and finally, the **Kiss Army** (ugh!). **Kiss** singlehandedly took rock 'n' roll off the streets and into the stock market—an unforgivable act.

With or without pyrotechnics, heavy metal has always needed the road to stay alive. Touring is the lifeblood of heavy metal. Bands have always had to depend on word of mouth and force of impact to beat the odds stacked against them by the standard lack of record company promotion and favorable press. By the middle '70s, touring and merchandising were becoming big business. Concerts were more than a fan ritual, and the notion of fans making their own t-shirts and jackets to show their support was supplanted by pre-fab industrialized promotional materials—typified by t-shirts that itched and took on weird shapes after being washed.

Still, the middle '70s were an exciting time for heavy metal fans. Everyone was out on the road—**ZZ Top**, **Ted Nugent**, **Rush**, **Blue Oyster Cult**, **Alice Cooper**, **AC/DC**, **Thin Lizzy**, **Judas Priest**, and **UFO**, to name just a few. Sometimes there would be three big concerts within days of one another. The packaging of tours also enabled lesser known bands to develop followings and reputations.

The string of tours seemed like an endless dream, but at times, these cross-country caravans would take on a nightmarish tinge. Live shows became big money, and one packed house was better than two almost-sold-out nights. General admission took on a whole new meaning as there were more tickets than seats. Scalping became a sideline for adults who had never heard of the



*Ted Nugent, formerly of the Amboy Dukes and charter member of the NRA.*





MERCURY RECORDS

*The Good, the Bad, and the Ugly—which one is which? (Left to right: Lemmy Kilmister, Fast Eddie Clarke, and Philthy "Animal" Taylor of Motorhead.)*

bands before. And as heavy metal audiences went wilder and wilder over their music, bouncers and security people did too.

When a riot over **Led Zeppelin** tickets left the city of Boston with \$30,000 worth of damage on their hands (1975), the mayor cancelled the show. (All that for nothing.) It took police from 17 different precincts to stop a bottle-throwing rampage when **ZZ Top** fans couldn't get tickets in San Francisco (1976). It wasn't until fans started getting seriously injured, and at one point, even killed, that anyone started thinking. When eleven people died and another several dozen were injured during that infamous stampede for festival seating at a **Who** performance in Cincinnati, which hit front pages across America in 1979, general seating went out and alternative means for selling tickets was in. Elaborate ticket lotteries that guaranteed very few real fans would get tickets (how many teenagers have checkbooks?), and distribution of designated allotments of tickets to various locations all seemed designed to assure that the scalpers would benefit the most. Inflated prices, like \$500 for front row during **Rolling Stones** tours, became the latest rock gossip.

As the '70s wore on, the reported violence before, during, and after heavy metal concerts made things even worse. It became increasingly more difficult for bands to book venues that would allow them to play. Disco and soft rock were becoming more popular, and venue owners found those crowds more manageable and better behaved.

By 1979 pre-fab bands made up of studio musicians, like **Toto** and **Foreigner**, were topping the charts. It was also the year the infamous "World Series of Rock" show happened in Cleveland, which featured **Ted Nugent**, **Thin Lizzy**, and **Aerosmith**. Thirty people were robbed, two women were raped, and one person was killed.

Incidents like that one led to the practice of searching fans before they entered arenas, and even the use of metal detectors in some arenas. The use of plastic cups rather than cans or bottles also became a widespread practice.

The "punk" years (1976-1979), which introduced the **Sex Pistols**, **Ramones**, the **Clash**, the **Damned**, and the **Dead Boys** to the world, brought some unexpected surprises, including the origins of hardcore, thrash, speed metal. Everyone was so high on the notion of new wave that two of our best bands almost got swept away in the excitement.

No one knew what to make of **AC/DC** when they first showed up in Australia. They were wearing jeans and sneakers at a time when most heavy metal bands had gone glam. And a lead guitarist in a school uniform—what the #\*%?! It wasn't until 1980 that **AC/DC** got their first gold album with *Highway to Hell*, but long before that there was "A Long Way to the Top if You Wanna Rock 'n Roll" and it was—**AC/DC** had toured England in 1975, and were playing around Australia years before that.

Then there was **Motorhead**, another band who could never quite break through here in the States. When they first turned up in Stiff Records stable (which also included the **Damned**, **Elvis Costello**, and **Lene Lovich**), they were often mistaken for a punk band. It would take them a couple of years to straighten that out, and **Motorhead** became best-known for their style of execution, since termed speed-metal.

Two other bands emerged from California towards the end of the '70s—**The Dickies** and **Van Halen**. **The Dickies** claim to fame is that they put out a version of "Paranoid" that was faster than any before it. They've continued to increase in speed over the years, but are hardcore heroes.

**Van Halen**, on the other hand, came out of the California bar circuit, where they'd been condemned to rot by local promoters. That is, until Gene Simmons of **Kiss** "discovered" them, and by that time they'd already been playing together for ten years. Initially it was Eddie Van Halen's distinctive guitar sound that set **Van Halen** apart, but once they started touring it was David Lee Roth's onstage attire and antics that brought them notice. Now, of course, he's "rock's reigning ego-maniac," a crown littered with so many contenders it boggles the mind that any human being could actually claim the title.

In 1980, when **Billy Joel** sang "It's Still Rock 'n Roll to Me," heavy metal fans were groaning as the metal music world was coming apart at the seams. There was a multitude of deaths and breakups that had critics crowing that heavy metal was finally dead. There was good reason to think it might be. **Ozzy Osbourne**, then **Bill Ward**, left **Black Sabbath**, **Joe Perry** split from **Aerosmith**, **Gary Moore** abandoned **Thin Lizzy**, **Ritchie Blackmore** left **Deep Purple**, **Cozy Powell** quit **Rainbow**, and finally, **Peter Dinklage** went home to Beth. But the biggest shockers were the deaths of **John Bonham** (and the subsequent disbanding of **Led Zeppelin**) and **AC/DC's** lead singer **Bon Scott** at the peak of their careers. Also lost to us at this time were **John Lennon** and **Keith Moon**. Without them there would have been no heavy metal.

But by the end of 1980 something new was in the air. In Europe, a new breed of heavy metal was being unleashed. *Metal For Muthas* was the import album that signalled the beginning of the end of the old metal, ushering in a whole new sound and attitude. A sampler of what was then called the "New Wave of Heavy Metal," it included what would become one of the hottest new bands, **Iron Maiden**, and others who would prove influential, like **Samson**, **Preying Mantis**, **Budgie**, and **The Tygers of Pan Tang**. Other bands that surfaced at this time were **Def Leppard**, **Saxon**, **Krokus**, **Witchfynde**, **Accept**,



*Limousines and private chartered jets were a mainstay of heavy metal in the '70s. (left to right: Neil Peart, Geddy Lee, and Alex Lifeson of Rush.)*

FIN COSTELLO/RETNA





BOB GRUENSTAR FILE

*The late, great Bonzo, banging it out behind the man generally acknowledged to be the greatest lead guitar player of the '70s.*

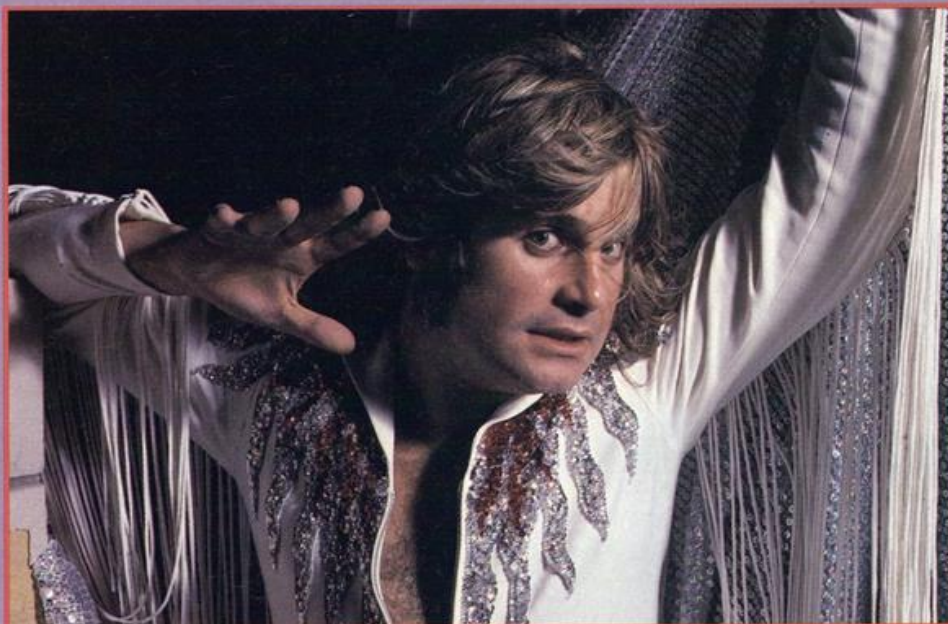
## Heavy Metal

*Before Madonna, there was Robert Plant. (After the release of Led Zeppelin II, several record reviewers actually thought Plant was a female singer!)*

*Ozzy Osbourne, that bat-eating bastard.*



BOB ALFORD/STAR FILE



MARK WEISS/MWA





*Ritchie Blackmore with Deep Purple at their best—live and in concert.*



MICHAEL PUTLAND/RETNA



MARK WEISS/MWA

*Slade (left to right: Jimmy Lea, Dave Hill, Noddy Holder, and Don Powell) were funky-looking but good. Motley Crue (Nikki Sixx, Vince Neil, Mick Mars, and Tommy Lee) are funky-looking but....*





FIN COSTELLO/RETNA



MICHAEL PUTLAND/RETNA

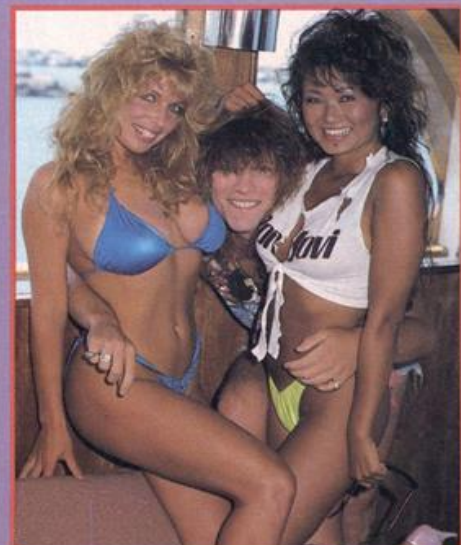
*Steve Tyler being ogled by a beer-laden bouncer, another staple of '70s heavy metal.*

**Angelwitch, Rock Goddess, and Girlschool**, to name just a few.

But as the '80s got into gear, a new animal was brought in to the zoo—MTV. Let's face it, heavy metal has never been pretty. Sexist, raunchy and brash, yes, but good-looking? However, thanks to MTV, all that was changed. Bands that would have been blown off for being lightweight and cute found a whole new audience waiting for them—teenage girls.

It used to be that the only girls who used to show up at heavy metal gigs were dutiful girlfriends, who spent most of their time in the bathroom fixing their hair. Any other lone females in attendance could usually count on being called dykes. However, in recent years, the hordes of heavy metal princesses have increased considerably, helping **Def Leppard** and **Motley Crue** on the charts as well as their walls.

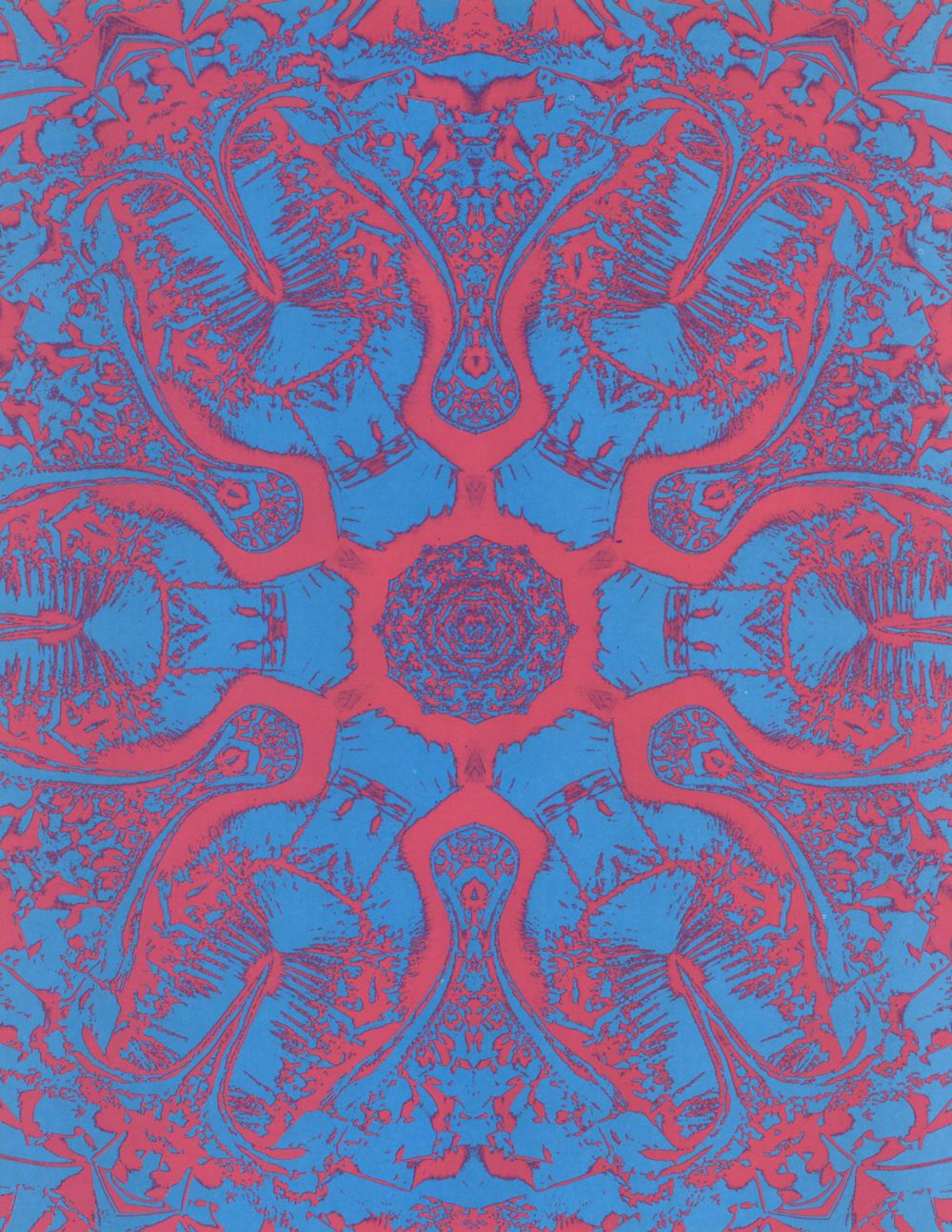
So that's the state of heavy metal today. There's a split between hardcore metal addicts (**Motorhead** spinoffs like **Metallica** and **Megadeth**, thrashing out speed metal), and "glam-metal" (played by pretty boys like **Bon Jovi**, **Whitesnake**, and **Europe**). Heavy metal has survived it all (PMRC hearings, consumer groups, parents, the PTA, disco, and even parodies like *This Is Spinal Tap*), but still it lives on, proving that the giant only sleeps. It never dies. ●



MARK WEISS/MWA

*Heavy metal is all about the three B's—Booze, Bucks, and Boobs!*







## ELECTRONIC

## DRUGS

by Marilyn O'Brian

*They promise to expand your mind, release you from anxiety, depression, insomnia, the horrors of withdrawal, and even increase your intelligence. Do they work?*

Whether it's stunt flying or sensory deprivation tanks, I've always craved cerebral stimulation, and I've always been fascinated by how drugs affect the brain. And how tiny amounts of matter can trigger such precise cerebral reactions—replace lethargy with energy, insomnia with oblivion, sweaty anxiety with cool nonchalance—all more or less instantly. If only there weren't those unpleasant little side effects, like increased tolerance, addiction, withdrawal, psychosis, suicidal impulses, high prices, etc.

In any case, my quest for such stimulation has taken me to the

newest frontier: brain machines. These devices have been made possible because of the explosion of knowledge about the human mind—more has been learned about the brain in the last 15 years than in all of previous history—especially the fact that the brain makes its own drugs (like endorphins, the brain's natural opiates). Now, pioneering researchers are using this new knowledge to create machines with fascinating effects. Here are some of the latest models on the cerebral frontier.

*Synchro-Energizer*

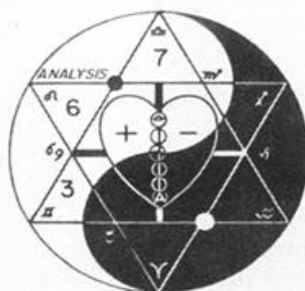
I thought I'd stepped into the middle of California. On the floor, here, there, and everywhere, were inert human forms—fully clothed, on their backs, on mats, wearing headphones and the most extraordinary goggles I'd ever seen—with rings of light around each eyeball and a beam in the center of the forehead. Was everyone pondering the ceiling in electrifying 3-D?

No, nor was this the middle of California. It was the middle of the day at the Tranquility Center in New York, and these people were being synchro-energized. I had heard the Tranquility Center, home of floatation tanks, had a new brain gadget, called the Synchro-Energizer, and I went to investigate. I opted for a private session instead

## THE WHOLE BRAIN WAVE FORM SYNCHRO ENERGISER

Psycho Somatic  
Integration

PATENT NO. 4315582



Unlimited States  
of  
Awareness

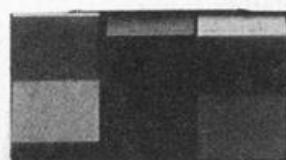
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BKR.

BAT.

CHG.

FOCUS  
POWER PHASE SYNC  
ON IN SIM



OFF OUT ALT  
EXPAND

LIGHT INTENSITY



PITCH

ON  
BAT



CYCLES PER SEC(Hz)



HEART RATE



of the group for my first time.

I took off my shoes, lay down, put on headphones and goggles, closed my eyes and was turned on. For 45 minutes, a kaleidoscope of changing colors and patterns danced on my eyelids as the beat of a heart overdubbed with surf, tones, and metronomes sounded in my ears. I lost all sense of time while I was being synchro-energized.

Beforehand I had been tired, sticky, irritable, and a bit hostile. Afterwards, however, I felt refreshed, renewed, zippy, tingly, and even creative. My brain was popping with ideas, but not in a manic, speedfreak way. I remained essentially calm, while feeling energetic and stimulated. Outside again, the streetlamps sparkled, and the leaves danced in the breeze. I felt like I was seven years old and in some fairytale wonderland. Why? What had happened?

"What the Synchro-Energizer does," says Christine Zerrer, who runs the S-E center in New York, "is bring into harmony all parts of the brain. Not just the right intuitive hemisphere and the overstimulated analyzing left hemisphere, but also the forebrain and the limbic system, where our disruptive, primitive urges lie. This results in clearer thinking, greater mental efficiency, and a sense of well-being."

### *"The Synchro-Energizer is an electronic cornucopia of drugs."*

How does the machine manage that? Both the headphones and the goggles, which have nine blinking lights, (four around each lens and one over the "third eye" in the middle of the forehead), emit a weak electromagnetic field, and are attached to a control console the size of a small briefcase. The flickering light, pulsing sound and vibrating electromagnetic waves are all programmed to pulse in a synchronized pattern that can be sped up or slowed down by turning a dial on the console. EEG studies show that brain wave activity falls into rhythm with the device, so you can choose your brain waves—beta, alpha, theta, or delta—and the various states of mind that go with them, by just turning the dial.

"The Synchro-Energizer is an electronic cornucopia of drugs,"

says Dr. Denis Gorges, the Cleveland psychiatrist who invented the machine after 30 years of research and patented it in 1980. "In the morning, for example, to get going, you can program yourself to an excited, aroused state. Also, people can have themselves tuned to their own state of being and then tune themselves to another state of being. In other words, if you're in a hyper or stressed state, you can match that state and then take yourself to a very relaxed state. In that case, it could replace a martini, or a tranquilizer or a joint. With the Synchro-Energizer, you get the high without

the downside risks of drugs. You can use it to tune yourself in all kinds of different directions."

Musicians use the S-E to calm down after performances and to relieve the stresses of being on the road. (In fact, Bob Weir, singer and rhythm guitar player of The Grateful Dead, says he's been using it for two years, and states that "it is guaranteed to change your state of mind.") Other entertainers who have gone on record as Synchro-Energizer users include Sammy Hagar, Tina Turner, Ally Sheedy, and Carly Simon.) Insomniacs find it effective in inducing sleep, and it's often used before brainstorming sessions to get the creative juices flowing. Some S-E users have reported vivid flashbacks of childhood events during sessions, and others have experienced

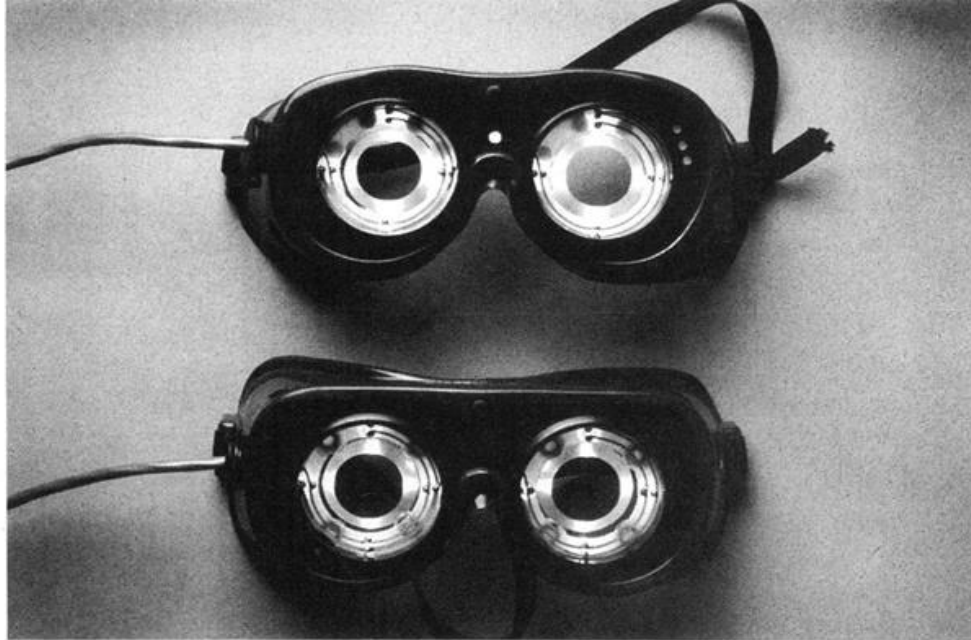
sudden flashes of insight (the "Eureka Effect"). "But it's not miraculous," Christine explains. "It merely sets up a situation to put the body and brain in the best state to give optimum performance, allowing a person to function at his or her fullest potential."

While no medical claims are made for the S-E, its effects are currently being studied at ten universities, in areas including stress reduction, substance abuse, accelerated learning, pain reduction, sports performance, and learning disabilities.

The Synchro-Energizer seems likely to become the Frisbee of brain machines—accessible, enduring, and popular everywhere. Five thousand are in use around the world, including the private practice of doctors, psychiatrists, and therapists. There are now 15 centers in the US, with the S-E available for private and group sessions. (The latter are usually \$10 a pop, private fees vary.) By year's end, "Minder-cise" centers in 36 major cities will have the Synchro-Energizer.

### *Graham Potentializer*

I lay down on a bed, put on headphones, closed my eyes, and began to experience exquisite sensations of pure euphoria. The bed whirled, as I drifted into a semi-swoon—very much at peace with myself. While I was thus languishing, the motorized bed slowly revolved in a counterclockwise circle, rising and falling rhythmically. I was also moving through a weak electromagnetic



ANDRE GROSSMANN



field generated by a box at the head of the bed.

"Besides my machine, probably only a trip to the moon or into space is a more powerful way to develop IQ and consciousness," says David Graham, a Canadian electrical engineer and inventor of the Graham Potentializer. His provocative theory to support that claim is as fascinating as the machine itself.

Graham believes—and recent research on motion tends to support this notion—that the brain, after reaching its full size at age six, continues to develop its powers and potential primarily through the effects of vestibular stimulation (i.e. the effects of motion on the inner ear, called the vestibular). This stimulation is so crucial because motion has a particularly powerful effect on fluids in the inner ear, causing the nerve endings there to send an enormous amount of electrical signals to the cerebellum, which in turn relays them to many parts of the brain. New pathways are devised as this tremendous number of signals seek to arrive at many different destinations, including the brain's so-called pleasure centers (which accounts for the euphoria described earlier). In essence, this high volume of neural activity expands the brain, stretches it and sharpens its powers, much like a good workout tones and exercises the body.

The roller coaster is a striking example of the effects of vestibular stimulation on the brain. During the ride, the passenger does nothing but sit still, yet afterwards he or she is overwhelmed by feelings of exhilaration, breathlessness, excitement, and general pleasure.

Graham also believes that humans are profoundly affected by the natural and artificial fields surrounding them. Since the earth's electromagnetic field is a basic component of our existence, its complete absence would force the brain to expand in new ways to deal with the change. The potential effects of no electromagnetic field, combined with the fantastic motion of space travel leads Graham to assert that a trip into space is "an incredibly powerful way to develop IQ and consciousness."

"If this theory is a correct model," he says, "it predicts that the astronauts return with a totally different consciousness than they

## WHY ENERGIZE?

Using the Synchro-Energizer is like a trip into the Twilight Zone: it's a journey not only of sight and sound but of mind. More than 100 people make this journey every week at Tranquility Center. But who are they? Why do they do it? And why do they keep going back?

According to Margo Currie, a Synchro-Energizer operator at Tranquility Center, "Businessmen and women find that it's very relaxing for their high-stress jobs, and artists find they have more of a creative flow." She also finds that people who have experienced the Synchro-Energizer are more than willing to share the experience with others. "Usually friends bring friends," Currie claims. "People buy blocks of time because it has an accumulative, clearing effect. And if you feel clear, you're more ready to deal with life's little adventures."

It was dealing with life's little adventures that prompted Jerry Rosco, director of advertising at a legal publishing house in New York, to bring four frazzled co-workers to the Synchro-Energizer when their yearly catalog was destroyed shortly after it had been completed. "Everybody was at their most manic," he recalls, "and our junior copywriter was crazed. So I took everyone to the Synchro-Energizer to calm them down and get them thinking straight again." And how did an hour under the flashing lights and changing tones of the Synchro-Energizer help? "When we got back,

we were all totally relaxed. Our problems with the catalog were still there, but everybody was in a completely different frame of mind and able to deal with the situations that came up."

After a few months of steady use, Rosco credits the Synchro-Energizer with a definite change in his life. "The Synchro-Energizer is a tool that people ought to use. I'm in favor of chemicals, but it's good to have other alternatives, too. It's something that works."

Not surprisingly, I was skeptical after hearing all this good press; so I made the trip to Tranquility Center and tried the Synchro-Energizer myself. The experience turned into the best ten dollar investment I've ever made. I left the building relaxed, grinning like an idiot, with the same sense of heightened superiority you get after doing just the right amount of coke, minus the adverse physical and mental sensations or crash. After the best night's sleep I've had in a long time, the next two days were like a valium rush: 48 hours of mental bliss without the stupor that comes with taking a fistful of downs. Return trips have given longer, more intense reactions and the desire to get everyone I know how to hook themselves up to this machine for at least an hour. There are a lot of positive things to be said about the Synchro-Energizer, but perhaps the three most important are that it's cheap, it's legal, and it works.

— Roger Keith

left with—and that's exactly what happened." He notes that all of them had "weird consciousness-changing experiences and no one came back the same person."

There's some consolation for those of us stuck on this paltry planet. "We can take any normal person and raise their IQ to 135-145 in less than 20 hours on this machine," says the inventor. An extra bonus: "It's the best piece of equipment for eliminating phobias you're ever going to run into. I

haven't met anyone with a phobia who used the machine five or ten times who still had the phobia."

Chinmayee Chakrabarty, whose machine I used, is a Manhattan psychotherapist who uses the GP in her private practice. "It's quite powerful," she says. "I've seen it have extraordinary effects again and again." Other professionals who use the GP include chiropractors, psychologists, homeopaths, and those involved in teaching brain-damaged or autistic children.



## Brain Tuner

The first time I used this I knew I had to own it. I was at a workshop being conducted by Michael Hutchison, author of *Mega-Brain*, who was demonstrating the "tools and techniques for mind growth and mind expansion" described in

*I noticed a definite increase in pleasure.  
Sex was more intense.*

his book. I placed the ends of a stethoscope-like device in the hollows below my earlobes and turned on the knob on the little box I was hooked up to. Instantly I got these tingling sensations, like two bolts of energy running up my skull behind my ears. I figured that had to liven up my brain chemicals, and when I found out that this machine was meant to relieve anxiety, depression, insomnia, and addiction, I reckoned I had just tumbled into heaven.

Breathlessly I waited for the package that would cure me of all life's troubles. It finally came, with instructions to use it for 20 to 40 minutes, twice a day, for a month. Did it work? Did it put an end to my anxiety, depression, insomnia, and addiction? Did I live happily ever after?

No. Which is not to say it had no effect at all. I did notice, in a subtle way, what's called an "overall sense of increased well-being". Both myself and the world were slightly less ghastly subjects of consideration, which I suppose indicates a drop in anxiety and depression. I guess it's unfair to expect any machine to cure the insomnia of someone whose blood is 96% espresso, and because I wasn't particularly addicted to anything at the time, I couldn't verify that claim. But I did notice a real change in my dreams, which heretofore had been the usual late 20th century mishmash of all things sacred and scary, profane and mundane. Instead, now I was suddenly starring in these vivid electrifying adventures of split-second timing and daredevil derring-do, flying WWII fighter

planes through glass skyscrapers. Meanwhile, during my waking hours, I noticed a definite increase in pleasure. Not that I had more fun moments. I didn't. But the pleasures I did have—sex, for example—were more intense. However, since pleasure and I have always been on the best of terms anyhow, this dividend was not such a big thrill compared to the end of anxiety, depression, etc.

The Brain Tuner is a non-invasive Cranial Electro Stimulation (CES) device that puts a small AC current, around 100HZ and under 1 milliampere, directly into the head through electrodes placed on acupuncture points, usually behind the ears. It was invented by Dr. Robert Beck, a physicist and engineer who holds several patents and is widely respected in the field of electromagnetics. CES, also referred to as Neuro Electro Therapy (NET), has been the subject of intensive worldwide study over the last several decades, especially in Russia, and it's been successfully used to treat depression, insomnia, drug abuse and other stress-related syndromes. The underlying theory which CES is based on is that electrical current can stimulate the release of neurotransmitters or brain chemicals. However, only specific currents can stimulate the release of specific neurotransmitters. For example, NET units are widely used in the treatment of pain because the particular electric current frequency they use stimulates the release of endorphins, the body's natural opiates. CES bears no relation to shock treatment or the barbaric Electro-Convulsive Therapy.

According to Dr. Beck, the Brain Tuner emits 256 simultaneous frequencies that include "all known beneficial frequencies for the natural stimulation of the brain's neurotransmitters." Another of the many CES devices is the "black box" designed by Dr. Margaret Patterson. This is the one that Keith Richards, Eric Clapton, and Pete Townshend used to kick their various addictions. With the black box, the

frequencies are selected to suit the client's particular problem. Barbiturate addicts tend to respond to low frequencies while cocaine and amphetamine users benefit most from very high frequencies. Dr. Patterson's black box is currently pending approval by the FDA.

These are just a few of the "brain machines" currently available. In future issues of *HIGH TIMES*, we'll keep you posted on the latest developments and machines. More are appearing all the time, even as the ones above are modified and upgraded (a portable, Walkman-type Synchro-Energizer for personal use should be out by year's end for under \$500). Although many experts have no doubt about the beneficial, mind-enhancing effects of electrical stimulation, it must be remembered that bioelectricity is still a new field full of mysteries.

Contrary to the accepted wisdom, recent research indicates that the adult brain is capable of growth and change, given the proper stimulation. As more of the brain's secrets are revealed in this field of fast-paced discovery, even more sophisticated devices will be developed. One thing is certain: We are crossing a threshold into a new era of consciousness. Nothing will remain the same for that most complex of all structures in the universe, the human brain.

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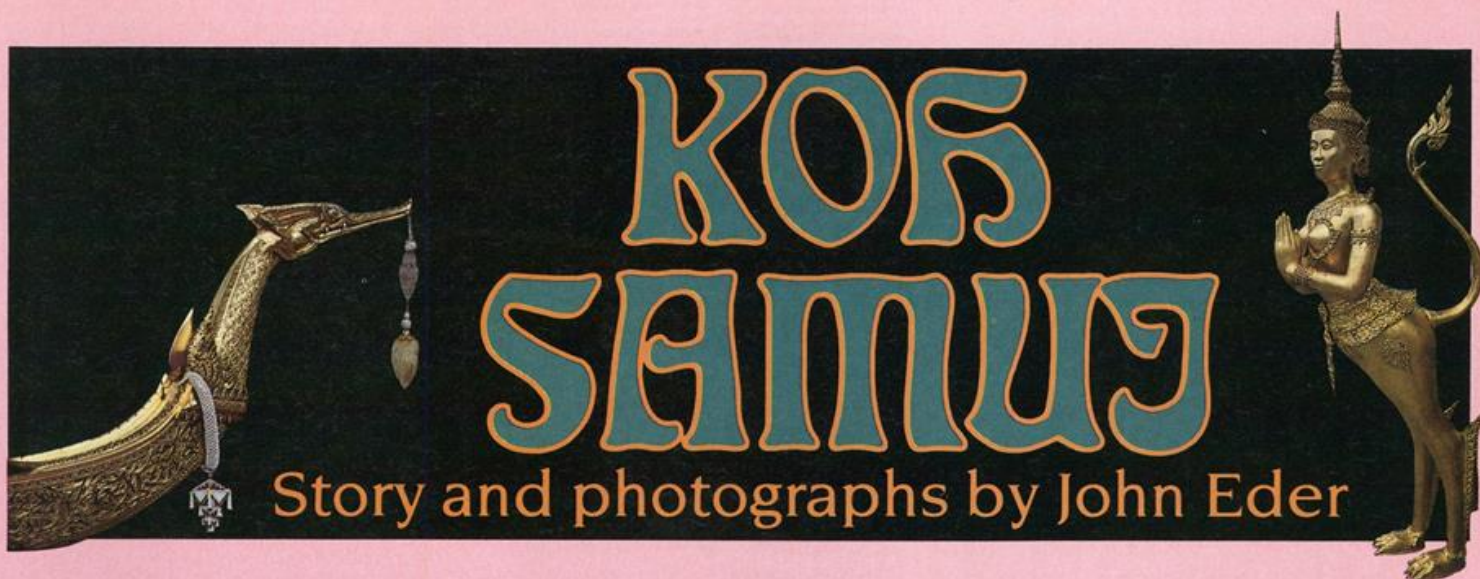
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None of these devices make any medical claims. Their use is not advised for pregnant women, people with pacemakers, epilepsy, or heart conditions. The long-term effects of these machines aren't known yet. ●



# KOH SAMUI

Story and photographs by John Eder



*Thai weed picked up in Bangkok on Khao San road for 100 baht (four dollars).*

Picture yourself on a beautiful tropical island. Palm trees sway in the breeze, crystal clear water laps the golden sand, and bare-breasted Scandinavian women play volleyball in the sun. Meanwhile, you're toasted on the psilocybin mushroom omelette you had for breakfast, contentedly sighing, wondering which one of your poor slob friends is stuck shoveling out the driveway back in Minnesota.

Sounds too good to be true, you say? (Not to mention too expensive!) Not true, doubting reader. This place really does exist, and it's cheap. Once you get there, that is.

I'm talking about Koh Samui, a small island about 40 miles off the coast of Thailand. Unlike some of the other islands around Thailand, Koh Samui's inaccessi-

bility has left it relatively unspoiled by Thailand's booming tourist industry. Also, it is geared more towards young people. The scenery is beautiful—huge vistas of palm trees, sweeping down to the blue-green ocean—and the island is so small you can motorbike all the way around it in about an hour.

If you're interested in the vacation of a lifetime, I'll tell you about the costs. First of all, round trip airfare to Thailand is going to cost you about eight or nine hundred bucks, but keep in mind that once you land, things get CHEAP. If you do it right, a vacation to the Far East will cost as much as a vacation to Europe. Thai currency is called the "baht", and the exchange rate is around 25 baht to the dollar.

*continued over*



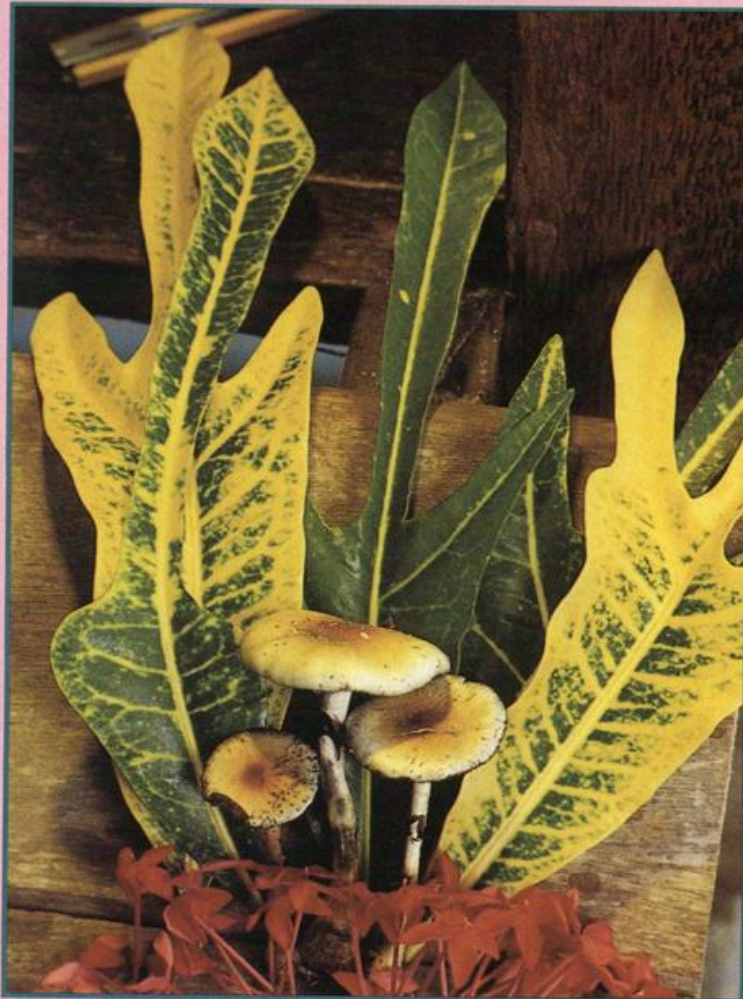




To begin your trip to Koh Samui, you have to travel from Bangkok, the usual port of entry for travelers, and world-famous as the "Sex Capital of the World." First off, head to the local pharmacy and load up on valium, which you can get over the counter for about 3 1/2 baht apiece. Then book an air-conditioned bus for Koh Samui (about 270 baht, or ten dollars), board it, and take the valium. When you wake up, twelve hours later, the ferry will be waiting to take you to the island, a two-hour trip. (The valium are optional, but I







*Above: Vegetarian devotees' annual ritual on Phuket Island features this six-pack to go.*

*Top left: A roadside mushroom farm near Big Buddha beach.*

*Top right and at left: An example of the fresh mushrooms available from your friendly local hotel manager.*

*Bottom left: The Magic Resort at Lamai Beach has videos, a great open-air restaurant on the beach, and allows smoking of all kinds on the premises.*

*Bottom right: Lamai Beach, the most popular hangout for topless Scandinavian women.*





found them indispensable for dealing with the tedium of travel.)

Upon arrival, you will be greeted by friendly bus drivers who will take you, and as many other poor souls they can cram into their vehicle, to the beach of your choice. There are beaches for every taste here—quiet, secluded ones; expensive ones, etc. I recommend Lamai beach.

Once in Lamai, get a room. You can get a pretty decent room right near the water for about 200 baht a night. If you're really going cheap, you can get a little shack for as low as 50 baht a night, with a common bathroom and shower. Prices vary according to the season. The high season is from November to February. In the summer, it's too hot, and they stop running ferries; in the fall is the rainy season.

I stayed at the fabulous Magic Resort in Lamai, right on the beach. This was somewhere between a real hotel and the shacks. It's best to bring your own sheets when travelling in Thailand, as maid service is not part of the deal in the inexpensive bungalow places.

Food in Thailand is also really cheap. A meal consisting of a half chicken, a huge bowl of steamed mussels, fried rice and a soft drink will cost about 80 baht (\$3.00). Thai food is wonderful, especially if you like it spicy. (Watch out if it's too spicy, 'cause then you'll be in for a "ring of fire" experience in the bathroom later.) Western food, like burgers and sandwiches, is available, but why go to Thailand to eat burgers?

Drinking is expensive in comparison to how cheap everything else is. Beer is heavily taxed, resulting in American-style prices. Better to stick with the local whisky—the deadly Mekhong—which is best when mixed with cola or seltzer. You can buy a fifth for 85 baht, and bring it with you to restaurants, as long as you buy mixers from them.

While perusing the menu, you're bound to notice the magic mushroom omelette. Koh Samui is full of mushrooms. The omelette costs 100 baht, but you can go to the Magic Mushroom farm in Big Buddha beach, and bypass the middleman. It's easy to find—there's a sign right on the road. Technically, mushrooms are illegal, but the police seem to ignore this. Just don't let them catch you with any or they'll stick you in jail until you give them a bunch of money. (Lamai is full of places offering mushroom omelettes.



*On your way to Koh Samui a visit to the Phatphong Road go-go bars can be fun.*

Consequently it's also full of people staring at rocks and going "Wow!")

When the day is ending, and you're coming down, you'll want something to take the edge off. So go out for dinner, and ask the waiter for a bag of marijuana—he'll bring it to the table, and you can light up after dinner. It's cheap, too.

Go to Koh Samui now—before hordes of tourists discover it and ruin it. It's one of the greatest vacation spots on earth! The Thai people are friendly and cheerful, but as usual, watch out for the cops. If you do get in trouble, keep in mind that they are incredibly corrupt and open to bribery.

So what are you waiting for? GO! ●

## Don't Screw Up

A few words on smuggling: Thailand is notorious for its heroin trade, and there are big bucks to be made in smuggling. The temptation is great, but HIGH TIMES must warn you: Don't do it. The penalties are extreme if you're caught in Thailand, and Southeast Asia in general. In Malaysia, they'll hang you. In Thailand, they'll put you in Bangkwang prison with the hardcore murderers and thugs of Thailand. I visited with some Americans who have been in jail for a number of years there. They described it as a living hell, and urged all readers not to try smuggling any amount

of drugs in or out of Southeast Asia. They also asked us to print their address, in the hopes that they can get some pen pals. These are great guys, who have kept their spirits up despite terrible circumstances, and they'll deeply appreciate any correspondence:

Mark Edwards  
Carl Most  
Bangkwang Prison  
Nonthaburi  
Thailand  
11000



# NORTHERN DELIGHTS

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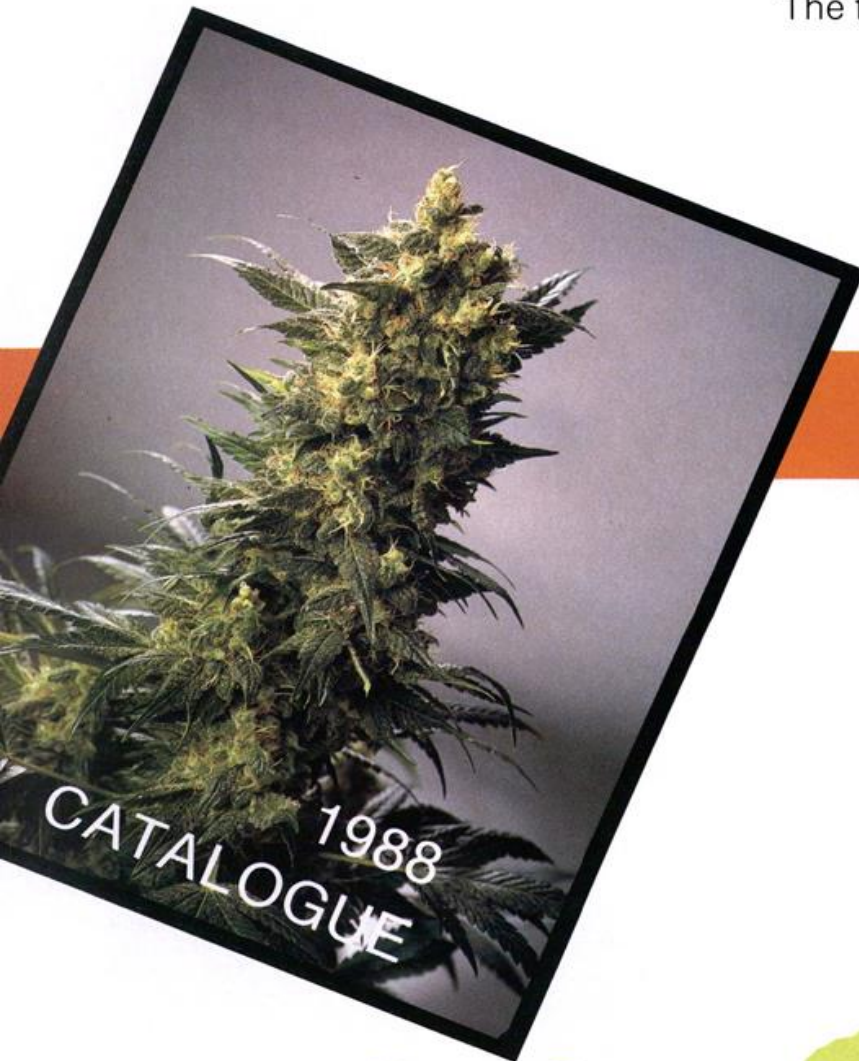


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# NO SWEAT HYDROPONICS

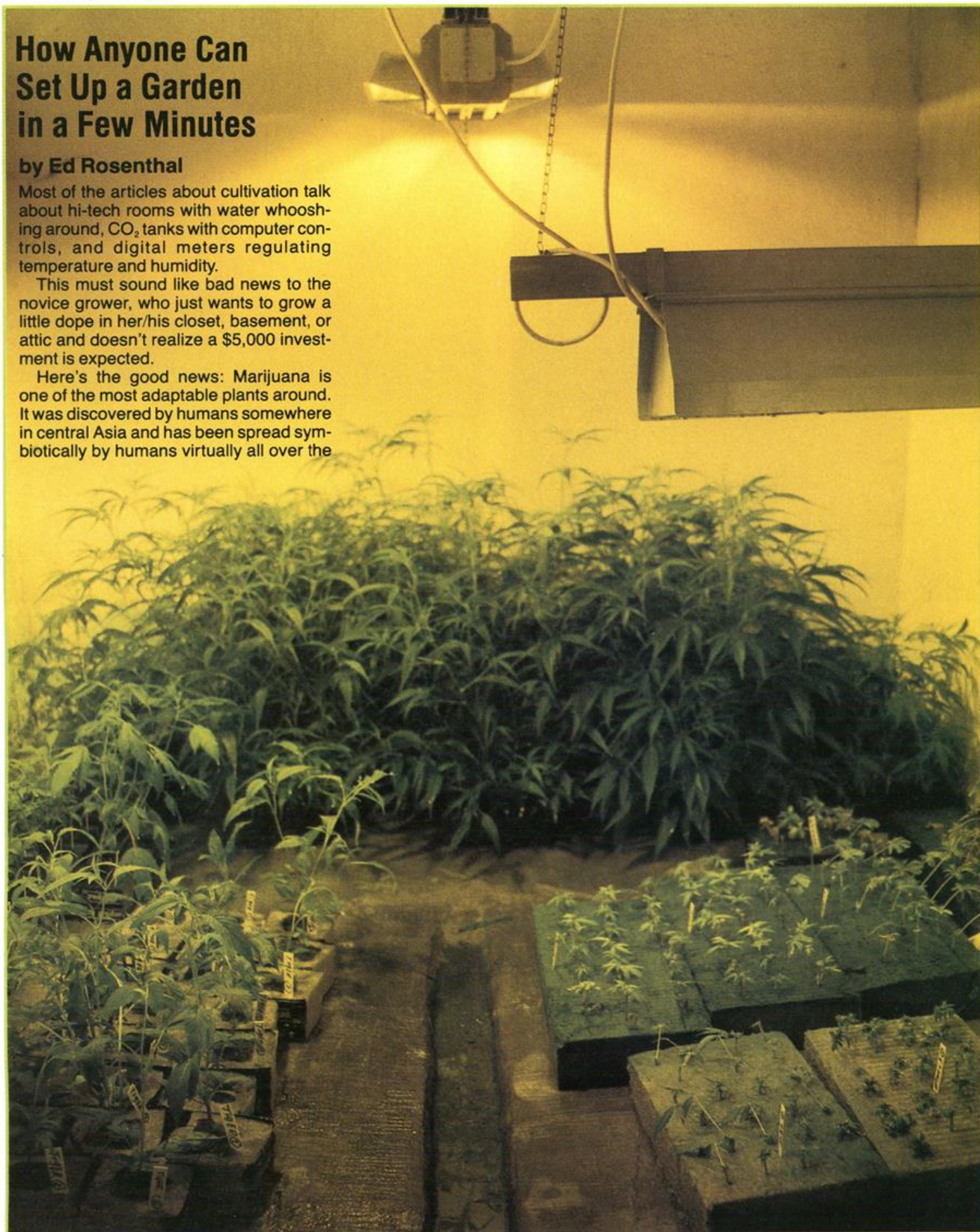
## How Anyone Can Set Up a Garden in a Few Minutes

by Ed Rosenthal

Most of the articles about cultivation talk about hi-tech rooms with water whooshing around, CO<sub>2</sub> tanks with computer controls, and digital meters regulating temperature and humidity.

This must sound like bad news to the novice grower, who just wants to grow a little dope in her/his closet, basement, or attic and doesn't realize a \$5,000 investment is expected.

Here's the good news: Marijuana is one of the most adaptable plants around. It was discovered by humans somewhere in central Asia and has been spread symbiotically by humans virtually all over the



*Cuttings at Seed Bank growing under continuous HPS light in 3-1/2 inch rockwool cubes.*





*A variety of plants grown in two quart containers. Each container was filled with loose rockwool and then placed in an oil drip pan tray available at auto-supply stores. The containers were watered from the top and allowed to sit in the tray. When they were fully watered there was a two inch water level in tray. Plants were flowered at six weeks and ranged in height between 2-1/2 to 4 feet. Many varieties were grown in the garden.*



*Three and one-half foot tall plant growing in eight inch pot filled with vermiculite and perlite. If this plant had been forced to flower earlier, it would have had almost the same amount of bud, but much less stem. The smaller plant would have been much more cost-efficient. Containers were watered three times a week by hand.*

world. Going indoors is just one of many adaptations to a varied environment. Cannabis has the genetic flexibility and diversity to enjoy the near tropical environment that the move indoors represents. What this means to the small-time grower is that the plants do not need perfect conditions to grow. It means you can get into growing with almost no investment, provided you treat the grow space in a modular way, improving equipment as you go along.

Let's get into basics. Plants grow by using light energy to convert carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O) into sugar, releasing oxygen (O<sub>2</sub>) in the process called photosynthesis. Small amounts of other elements are used by the plants for their life processes and to build carbohydrates and protein.

From this simplified explanation of how plants grow, you can see that there are some basic requirements that plants

need, namely light, CO<sub>2</sub>, water, and nutrients. In nature these needs are usually part of the environment. Indoors, it is up to the gardener to supply them.

## SETTING UP THE ENVIRONMENT

Outdoors, marijuana grows best under full light, with high nutrients and plenty of moisture in the soil. To get the plant to grow vigorously and bud well, these conditions must be met. Supplying light is the hardest and most expensive part of growing for most closet farmers. Intense light is expensive to generate electrically, and hard to distribute evenly throughout the garden.

## LIGHT

There is no reasonable way a gardener can generate as much light as is found on

a sunny summer day. Luckily the plants do not need that much to grow and flower well. However, they do need a very bright environment.

All electrically generated light costs money and taxes the electrical system; so the most efficient way to go is to conserve any light generated. The solution is cheap and simple: paint the perimeter with flat white reflective material. Another solution: line the perimeter with aluminum foil (dull side out so that the reflection is diffused rather than just reflecting in hot spots).

More expensive solutions: if the room is in an area where heat must be conserved in order to maintain a 70-80 degree temperature when the lights are on, line the walls with styrofoam insulating material which comes on a roll (available in hardware stores).

Grow-stores sell mylar reflective  
*continued on page 59*



# BY ED ROSENTHAL ASKED

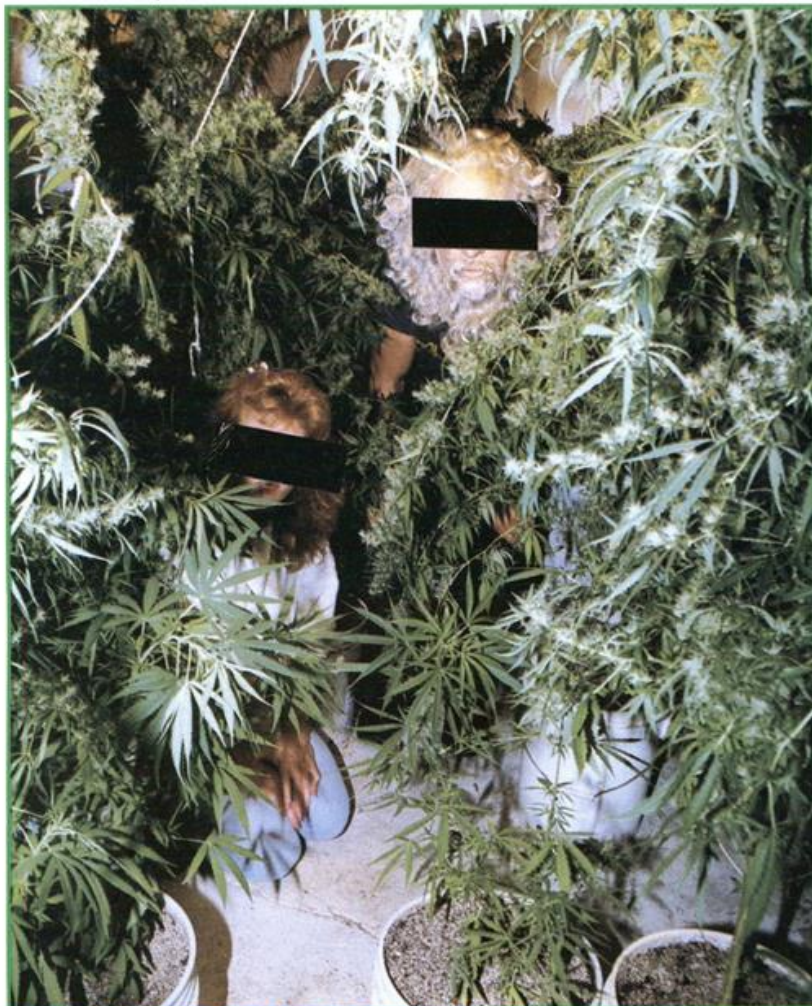


## BUD OF THE MONTH

This is it. This is why we come home with our legs infested with chiggers, ticks attached to our scalps, and our clothes harboring stickers, burrs and sweat.

After it's all over, my wife and I sit back with a tasty joint, soothe our ears with blasts of heavy metal music, and we watch it snow. Life just doesn't get any better. This plant was of Afghani strain.

—Alexandria, Tennessee



## GARDEN OF THE MONTH

Here's a picture of my jungle and a few buds from it. On the left are two skunk buds. The others are California Orange. All plants were grown under a 1000 watt high pressure sodium. Most plants were started under continuous light for four months, then cut back to 18 hours for budding.

—Stain

Erie, Pennsylvania



## PLANTS OF THE MONTH

These two plants were grown just outside Syracuse, New York, starting with clones whose origin was the Seed Bank (Northern Lights × Skunk 1). We planted each of the clones in 12 gallon peat pots, in case we had to move the plants fast. We nurtured them all summer and harvested them Sept. 13, the day of this picture. Each plant yielded 10 ounces of dry, fruity-sweet tasting, ass-kicking buds.

—Bobalou, M.J., and Jac  
Syracuse, New York

Dear Ed,

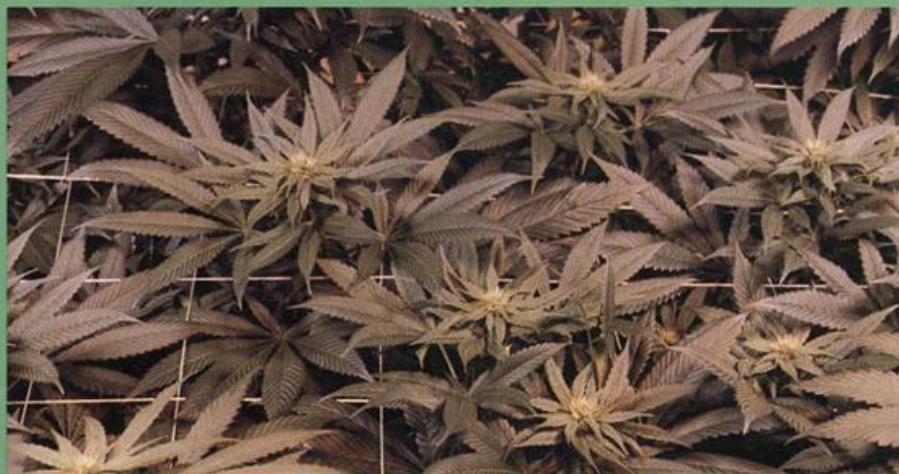
We start our plants in 5-gallon buckets filled with creek gravel under fluorescent lights. The lights are left on continuously for 2 weeks. We water twice a day with 75-85 degree water with fertilizer from Natural Science research. We change the water and nutrient every 2 weeks. We also use CO<sub>2</sub>.

After 2 weeks the plants are placed  
*continued on page 58*



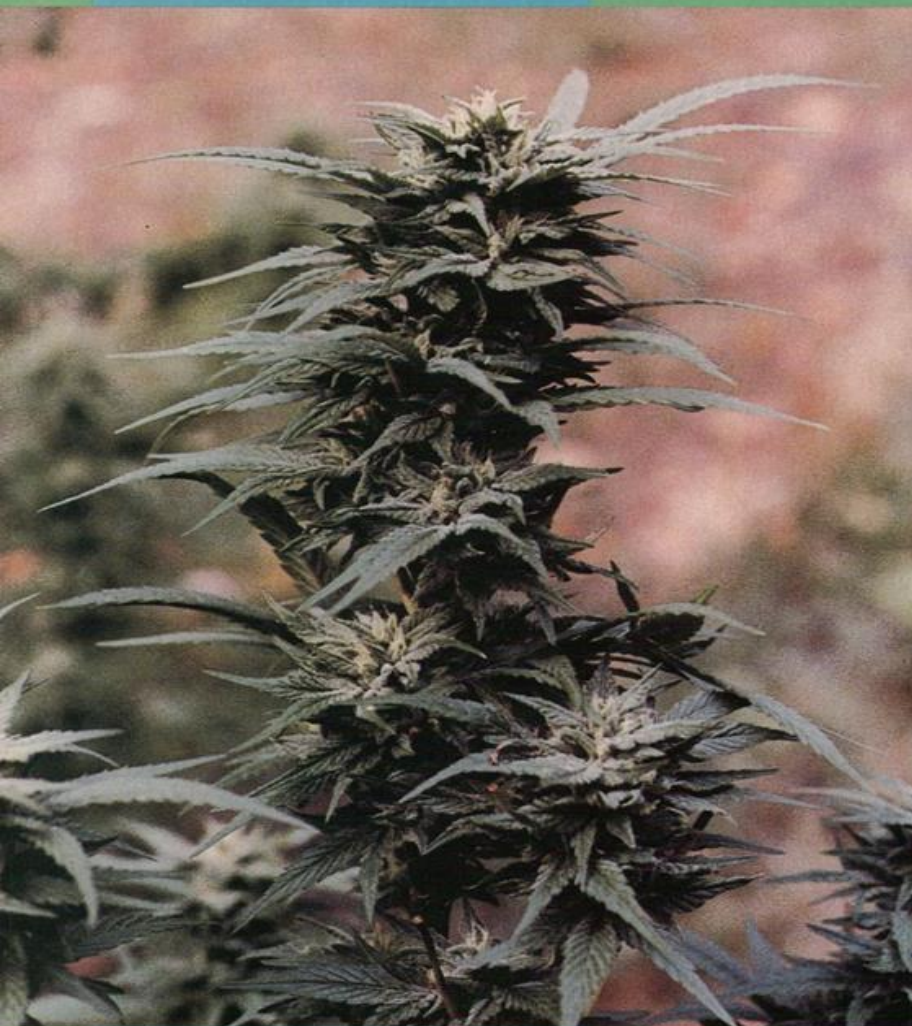
# DR. INDOORS

BY BRAM



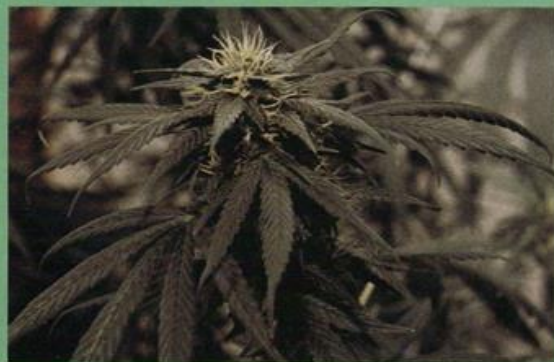
*We tried your trellis idea. It worked pretty good as you can see. Afghani grows real well indoors. We harvest soon, and we'll let you know how it went.*

*High in the Mountains*



*Doc, here's two week old Northern Lights in your system. Hope our harvest goes as well. The system and the plants are a good duo, dynamic you might say!*

*E.T. from LA*



*Here's some indoor indica we grew this year. Sweet taste and it had a rocketship high. Three cheers for indoor growing and SSSC!*

*Hi-tec, Florida*

Dear Dr. Indoors,  
I'm a new grower and my plants are in a 3' x 4' closet. There are two gro-bulbs and one 30" fluorescent light over my plants.

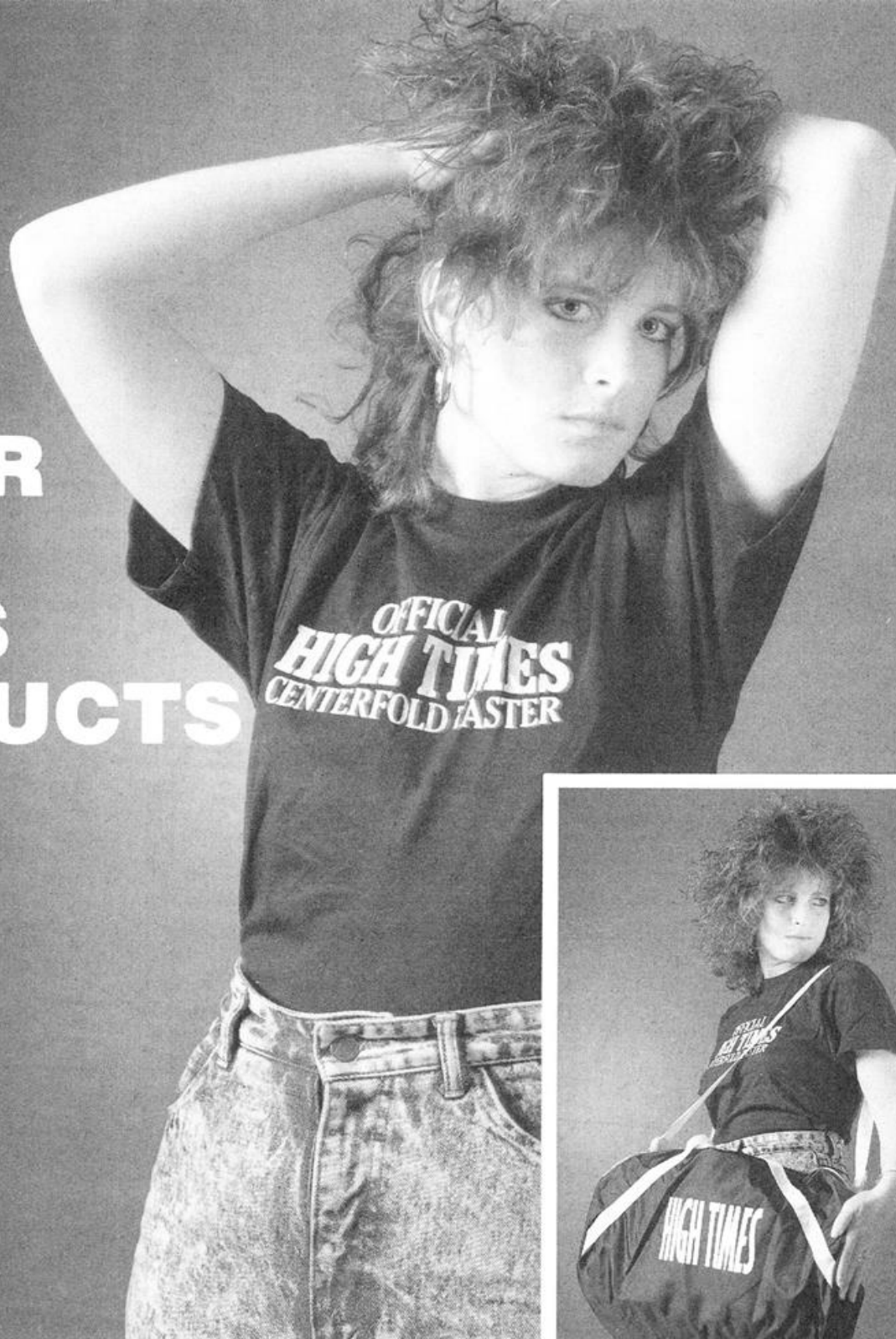
*continued on page 60*

*This 60 day old Afghan #1 was fantastic. Great high and taste. Growing indoors gave us better results than outdoors! Thanks Doc!*

*The Budman, Minnesota*



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## ASK ED

continued from page 55

under a 1000 watt MH under 18 hours of light a day for 2 months. Then they are cut back to 12 hours until harvest.

We have been growing this way for 11½ years. In that time we have gotten 3 crops with varying degrees of success.

We have to replace our lights soon. Do you recommend staying with the MH or should we switch to HPS lamps?

Do you have any other suggestions on how to improve our system for a better harvest?

Thanks,

—L&R

Cedar Hill, Texas

**Switch to HPS which produces more usable light than the MH.**

**Switch to the small plant method of growing using clones. Place the plants in harvest when they are 10-15 inches tall.**

Dear Ed,

We have discovered an easy way to prevent animal predators from destroying our plants. Paint a one gallon plastic milk container a camouflage or earth-tone color. Punch a dime sized hole on each of the four sides of the jug below the slope of the neck to prevent rainfall from getting in. Fill the jugs up to the level of the holes with human urine. Place the jug on the ground, or dig it into the ground, so that the holes are just above the ground level (this slows evaporation). The odor from the jug will remain strong throughout the growing season. Add more urine as the fluid level drops.

Sincerely yours,

—V and C and J and T.K.

Devil's Bluff, Arkansas

Dear Ed,

I have a problem with white flies. Are they damaging to the plants? If so, how can I get rid of them? I would prefer not to use chemical sprays.

—*Brooklyn Buds*

Brooklyn, New York

**The easiest way to control white flies in a greenhouse or grow room is to use the white fly parasite, encarsia formosa. This insect is a small non-social wasp. It is about 1/20 the size of a white fly. Its entire life is lived as a predator of white flies. The primary way it keeps them controlled is by laying an egg in each white fly egg. Within weeks the white flies are an occasional sight, never to be a bother in the garden again.**

continued on page 71





*Plants growing in 16 ounce styrofoam cups stuffed with loose rockwool. Holes were punched in the bottom of each cup. The containers were placed in a five foot diameter kiddie pool. To water, a hose was placed into the pool and it was filled until there was a 1-1/2 inch water level. Illuminated by a single 400 watt HPS.*

## NO SWEAT

*continued from page 54*

material that they claim is the most reflective stuff around.

Some mail-order stores sell Astrolon which is another highly reflective material.

**BEST BET:** aluminum foil.

## THE LIGHTS

If you figure just the cost of the lamp, fluorescents are the cheapest way to go. They are often on sale in hardware and discount stores and come in various configurations such as four and eight foot lengths and in circles. They can be hung from the top and placed in any position. Deluxe warm white and deluxe cool white tubes mixed create a good spectrum of light for plant growth.

Fluorescents are cheap to buy, and can sometimes be salvaged or picked up used. If you are using used reflectors, buy new tubes because old tubes do not generate as much light.

They can be placed all over the garden to light up dark spots and can be used in innovative ways to light the plants.

If you are not paying for electricity their

total cost is very little. To increase total light to the plants the tubes can be placed around the garden as well as over the plants. The tubes can actually be placed in between the plants by using portable fluorescent fixtures available in hardware and auto-parts shops.

However, fluorescents are bulky in the garden and inconvenient to use. They generate their light over a dispersed area rather than a point, and they are bulky. The total amount of light that can be delivered to a given area is physically limited. The low light levels slow growth and limit bud density and size. You can still get good buds growing under fluorescents, but not as good as under high intensity discharge lamps (HIDs).

The total cost of a source of light cannot be figured just as the purchase price. It is also based on the amount of light useable to the plant generated per watt of electricity. By this standard, fluorescents are more expensive than HID lights because HIDs generate a lot more light than fluorescents per watt of electricity.

## HID LAMPS

HID lamps come in two forms, metal halides (MH) and high pressure sodium

(HPS) lamps. These lights are found outdoors as street lighting. The MH lamps emit a white light and the HPS lamps emit a pink-amber light. The HPS lamps are more efficient; that is, they emit more light per watt than the MH lamps.

Some cultivators say that plants do better under one lamp or another or a combination during the pre-flowering period. I think that most plants do better under HPS used alone. In any case, the differences in growth during the pre-flowering period are marginal. Virtually everyone agrees that HPS lamps are the way to go during flowering. They encourage flower growth more than MH lamps.

HID lamps are very efficient energy converters and produce lots of light per watt.

HID lamps usually come with the reflector and tube remote from the ballast so that they are lightweight and easy to manipulate.

HID lamps emit light over a small area, so that the energy is very concentrated and can be delivered to the plants with great intensity.

However, HID lamps' purchase price is high.

**BEST BET:** an HPS lamp.

*continued on page 68*





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## DR. INDOORS

continued from page 56

They grow very quickly. At two weeks old they are 10" tall. Is it too soon to put them into flower? If not, what is the best food to feed them to start the buds and the flowering?

Thanks,  
Starter Luck

The light from your grow bulbs and the fluorescent will encourage tall, spindly plants as they reach for the light. Try a 200 or 400 watt horizontal halide. The plants need light to grow and flower. The more light the better. Stronger light will allow your plants to grow to be thick, short, and bushy. If you are using the plantlet method, the intense light will allow you to have a sea-of-green area filled with ripe buds. As to your 10" plants, two weeks old from seed is old enough to get flowers, but the question is how big will the flowers be? I would clone the plant several times and then flower them all. Feed the plants a complete food such as Dyna-gro, ECO-S, or any full food with micronutrients.

Dear Dr. Indoors,  
I'm converting my growing hobby from the outdoors to the indoors. I have a room that is 14' x 12' with plenty of ventilation. I have \$600 to invest in a system and light. What should I do??

Avid HT reader

Divide the room into smaller rooms. You don't need to use all the space at once. Give yourself a 6' x 7' area to start. In this area put a 1000MS halide either vertical or horizontal mount to supply the light. The cost for the light and the timer will be around \$200. Pick a grow system that fits the area. There are a lot of good systems on the market. Aeroflo by Diamond Lights/General Hydroponics is a good expandable system. The Good Buddy-Super Buddy by Higher Yield will also give good results, and is expandable. You can use Hydrofarm Quad by Applied Hydro, or SGS Europon by Superior Growers. Any good hydroponic system will do. Pick the one that appeals to you and fits into your budget. Most are around \$200. So far, that's \$400 of your \$600. Build a smaller area 3' x 4' for cloning. You can use a 175 watt horizontal light. The cost is about \$110 plus a timer, which will cost about \$15. To grow the clones get some clone kit equipment like rockwool, simple trays, and rooting hormone. Rooting hormone can be Rootone, Klone-gel or something similar. With this set up, you can start the plants in the clone area, clone them, and when they're ready, move them into the main area to flower. This system will keep you in cannabis for a while and when your budget allows, you

can increase the size of the rooms and the systems.

Dear Dr. Indoors  
I have an area 2' x 3' x 7'. Would a 150 watt grow bulb with a 100 watt fluorescent be enough? I just ordered seed from SSSC and want the light to be correct. LONG LIVE NORML.

F. Coachman

At first your area seems small. I would suggest you split it into two areas of 2' x 3' x 3'. Then you can use a 175-200 watt metal halide in each area. The fixture should be a horizontal mount leaving 3 feet of vertical grow space. It is very important that the top level has some sort of water barrier to prevent any accidental leakage onto the lower light fixture.

Now, with the seeds from SSSC and a small rockwool system, you can have a two tier sea-of-green grow room.



Dear Doc,  
I'm sending these pictures of our garden. The plants are 5 months old, grown under a 1000 watt metal halide we ordered out of your book. The plants are a Skunk indica hybrid which we call "Criptoe" 'cause it creeps up on you and gets you totally stoned. This is our third harvest since we bought the light. We harvest every 5 months. The plants grow in dirt, vermiculite, perlite, and blood meal placed in 5 gallon buckets.

Albuquerque Criptoe

Nice effort, Criptoe. The main bud on the plants are fine, along with the top 12 inches. Build a table for the plants to sit on. Underneath the table mount some fluorescent gro-tubes and build a clone chamber. The table must fit

continued on page 72



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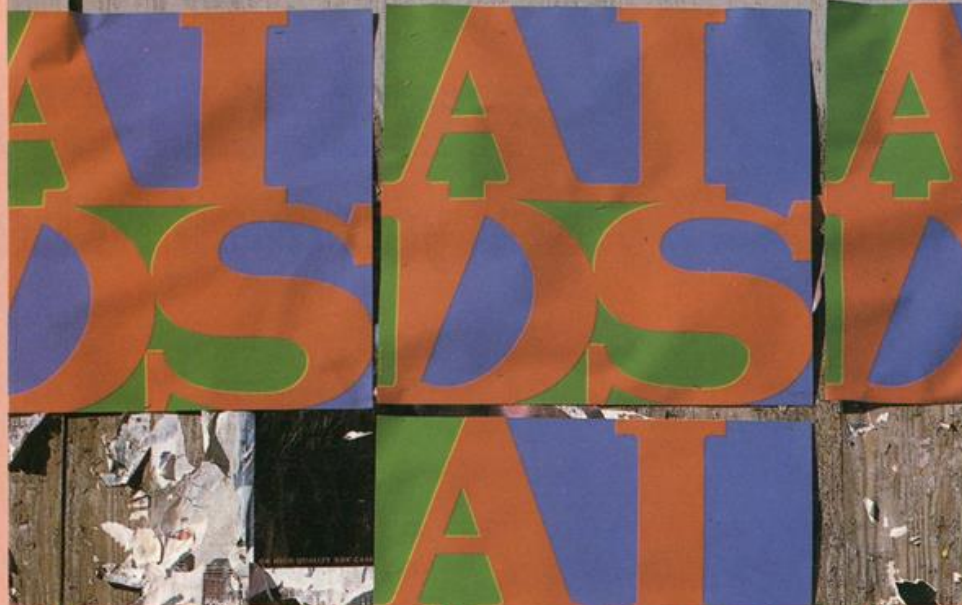
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HTM0688



## HIGH ART



*AIDS poster project, a silk-screened poster from 1987.*

## General Idea

As long as we keep time—that is, measure our history in terms of years, decades, or centuries—its numbers shall always have peculiar resonances that subliminally affect us. Time, as such, is a glib abbreviation, a misleading measurement for an entire emotional, economic, political, and artistic climate of an age. The “sixties”, for example, vaguely lumps together the conservative mediocrity of the early part of the decade with the radical renaissance that followed, and arbitrarily cuts off that time from the early seventies. One curious phenomenon in all of this is how centuries have their own psychic life span. At the beginning the years seem remarkably free of their predecessors. Everything is wide open; it’s a new age, a leap into the future. But as decades build up they weigh down on us. We continuously refer back to them: the twenties, the thirties, the forties, the fifties.... Near the conclusion of a century, the past crowds us into a claustrophobia of nostalgia, decadence, and a morbid self-fascination with the end—the death of \_\_\_\_\_.

*Fin de siècle* is the phrase many have chosen to describe those periods when the burden of history warps expression into vain, stylized reflections of the past. As the 20th century slips further into the dreaming dotage of its old age, the work of General Idea is emerging as truly the art of the times. A collective name for three artists (AA Bronson, Jorge Zontal, and Felix Partz), General Idea formed in Toronto in the late sixties, and has, in the twenty years since, invented its own manic dandy persona and mythic pageantry of inbred mannerist sophistications. From early films like “God Is My Gigolo”, and kitsch-decorative architectural projects like “The Miss General Idea Pavilion”, to recent paintings of copyright symbols and shields of faux-heraldry emblazoned with shocking pink poodles, they continually elaborate on a slyly derisive caricature of the perverse tastes and vulgar artifacts of the wealthy, cultured elite. Greatness in the *fin de siècle* is not what is new, but the bizarre affectations of its mannerisms. What is most radical is often precisely that which doesn’t seem radical at all, like General Idea—more an anonymous corporate identity than the image of the lone, individualistic struggling artist we expect. Their most recent work has been their AIDS posters and paintings (shown here). A reference to Robert Indiana’s famous “LOVE”, they’ve readapted it into a more disturbingly contemporary context, piling up new layers of meaning like thin translucent skins of an onion too tearful to peel in public. ●

*AIDS room, from the Miss General Idea Pavilion installation at San Francisco’s Artspace Gallery, 1988.*





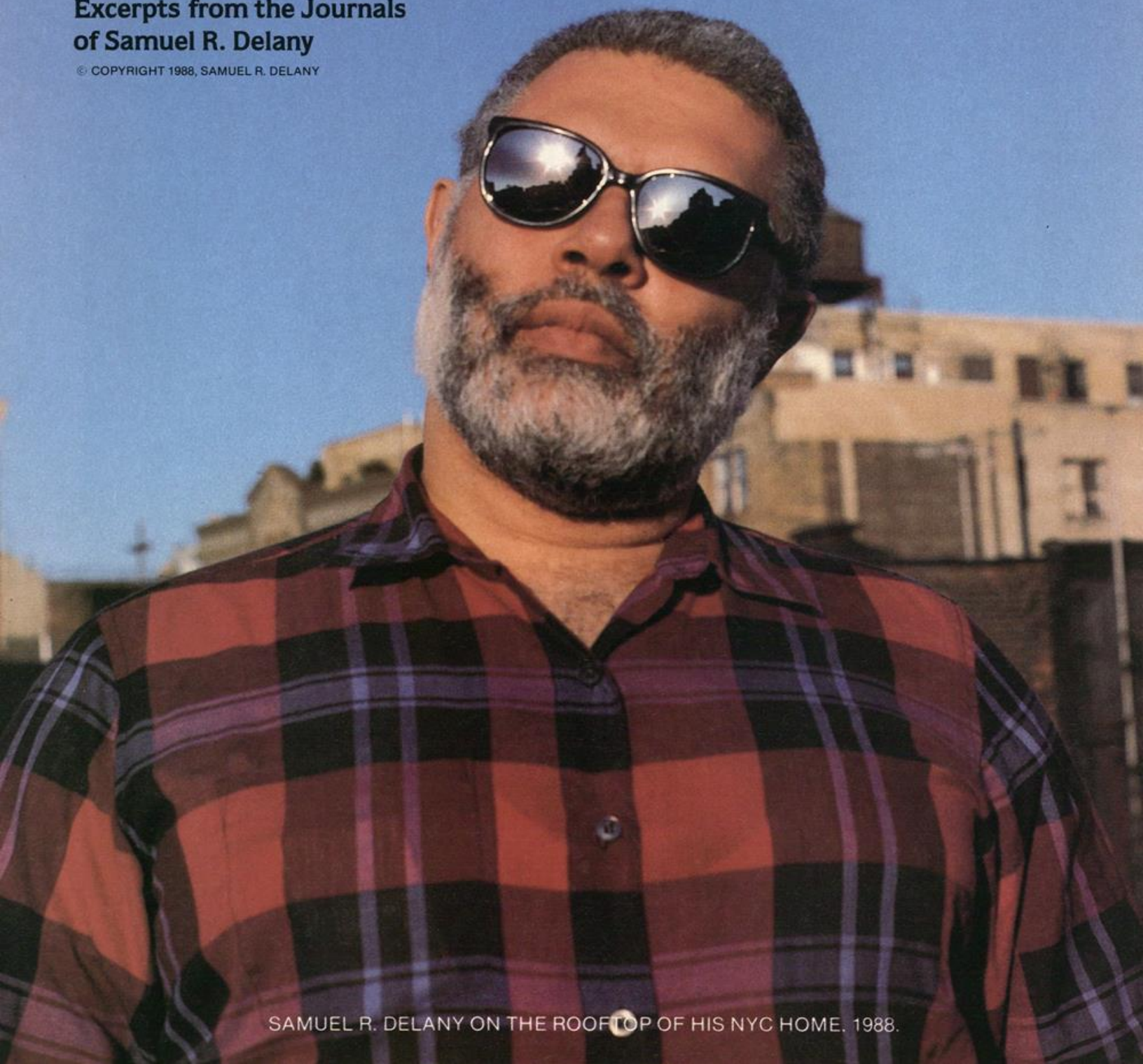
***Baby Makes Three, a retouched photograph originally prepared for a poster, eventually used as the cover to the General Idea-edited File Magazine, Fall '83 issue.***



# The Motion of Light in Water

Excerpts from the Journals  
of Samuel R. Delany

© COPYRIGHT 1988, SAMUEL R. DELANY



SAMUEL R. DELANY ON THE ROOFTOP OF HIS NYC HOME, 1988.



Even within the weirdness-strained confines of the science-fiction subcontinent, Samuel Delany is an anomaly. I mean, how else would you characterize a middle-class private-schooled black dyslexic homosexual single-father and unabashed intellectual who happily writes visionary fiction for a market generally perceived to be populated exclusively by daydreaming arrested adolescents? Certainly not just one of the boys, eh? Delany's been an alien among aliens since 1962, when he published his first novel, *The Jewels of Apor*, at the tender age of 20. Since then he's turned out a steady stream of startlingly imaginative works—novels like 1966's *Babel-17* (which posited language as a socio-military weapon), 1968's *Nova* (a mind-twisting, tour-de-force space opera that many consider to be the cyberpunk prototype), 1975's *Dhalgren* (a huge, densely-textured work that has inexplicably sold like a motherfucker, shattering conventional publishing wisdom that "difficult" books don't sell), 1984's *Stars In My Pocket Like Grains of Sand* (the first part of a science-fiction diptych), and the four-volume "Neveryon" fantasy series, which Delany describes as "a kind of 'child's garden of semiotics'—

sword and sorcery with an interesting philosophical overload." The most recent entry in this AIDS-subtexted mega-work is *The Bridge of Lost Desire*, published in hardcover last fall by Arbor House. Delany has also written some of the sharpest, most carefully thought-out criticism of science fiction and the specialized language it employs (most recently compiled in *The Straits of Messina*, available for \$20.95 mailorder from Serconia Press, P.O. Box 1786, Seattle WA 98111).

The following piece is an excerpt from the recently published non-fiction work, *The Motion of Light in Water, Sex and Science-Fiction Writing in the East Village, 1957-1965* (Arbor House/William Morrow), compiled from Delany's prodigious journals of the time. The guy's prolific on top of being brilliant. Doncha just hate 'im?

(Clarifying note: The Marilyn referred to in the story is Delany's ex-wife, National Book Award-winning poet Marilyn Hacker.)

—Lou Stathis

Across from the trucks at the Christopher Street Pier, earlier that summer, a bar changed owners—though the old name; yes, Dirty Dick's—persisted. The new owner was a brassy, gregarious woman in her early thirties who went by the name of Pat and who, several operations ago, rumor was, had been a man.

The new clientele was largely gay.

Now Marilyn and I went over one night. Catering to the late-teenaged dikes who would be sitting on the church steps as far east as Sixth Avenue, to colorful bebies of Puerto Rican drag queens, to a whole range of truck drivers from the yards around, to various guys who would have liked to have been mistaken for drivers, and to the odd tailored uptown businesswoman, the place was a kind of a haven—even more so for Marilyn than for me.

The bar was oval. There was a dance floor in the back. The story was that the straights stood on one side while the gays cruised the other, with everyone coming together to dance to the music. But such a cut-and-dried scheme hardly ever pertained in the place. It only suggested a categorization that reassured the newcomer—if he or she needed reassurance. The jukebox hit that season was "Walk Like a Man," which produced a galaxy of parochial parodies on the dance floor from both the men and the women there.

Some folks we met there were people we already knew, like Carol, who, with her boy-short hair (in that time when women's hair was always long and men's always short), dressed in slacks and men's shirts, and had managed the Elysee before Bill and Terry; before Marilyn had gone to Mexico, she'd booked in one of my ersatz folksinging groups, either some transient resurrection of the Harbor Singers, or the duo I'd briefly formed with a motorcycle-riding young husband from the Bronx (who was studying creative writing with Margarite Young, when he was not working or rehearsing with me) under the name of Waldo and Oversoul. On our first night together

there, she stood us for drinks and introduced us both to half a dozen other friends.

When, at irregular intervals, a policeman stopped by to check the place out, a light would come on over the jukebox, the dancing couples—mostly male and male—would part, drift back to the walls, and take up their drinks. (Remember, it was five years to Stonewall.) The cop would joke with the bartender, maybe flirt with one of the queens, cast a contemptuous look toward another, then leave. The light would go off. The jukebox would come on. And the dancing would begin—for which Pat, or her backers, paid an outrageous protection.

One of Marilyn's old boyfriends, a Puerto Rican graduate student at NYU, some years my senior, named Rick, dropped by with a wedding present for me: half a dozen dried peyote buttons. "You should try it, Chip. I really think you in particular would get something out of these. You're an interesting kid." I put them, in their small brown paper bag, in a glass dish at the side of one of the kitchen shelves, where they remained, untouched, more than a year.

"Those dried peyote buttons you have up in that paper bag in the corner of the kitchen cabinet...?" Sue said, one day.

"Yeah?" I said. "What about them?"

"Take them," she said. "It breaks my heart to see them just sitting there, day after day."

"What'll happen if I do?" I asked. Sue had introduced pot into the house and was our resident expert on all matters concerning drugs, though much of her information came, I suspect, from a small volume that served a number of sixties types as a bible, *Drugs and the Mind*. "It's similar to mescaline," she explained. (I'd read Henri Michaux's *Miserable Miracle*, the French poet's account of his hallucinogenic experiments, some years ago.) "It tastes awful. I've had some very nice trips on it myself. You'll have to take it real fast and wash it down with beer or something, and you might get an upset stomach anyway. But you'll probably have some real hallucinations."

"After all this time," I asked, "you think they're still good?"

"Very," she said.

"What kind of hallucinations?"

"Well," she explained, "you can be walking down the street and you might see an old tennis sneaker lying there—only, suddenly, it becomes a wholly cosmic tennis sneaker,



vibrating and pulsing with truly universal significance

"Tennis sneaker?" I said. "World in a grain of sand, eternity in an hour—that sort of stuff?"

"You try it. Just get a bottle of beer, like I say. The beer will relax you too, so that the peyote proper comes on easier."

That evening, toward sunset, I cut the hard brown buttons with their bitter, inner tufts into small pieces; for a moment I wondered if Rick's "wedding present" might have been laced with cyanide. Then I swallowed them down with most of a quart bottle of beer. I told Marilyn not to get worried if I were gone for the night. She might catch me over at the bar later.

Then I went out for a walk.

There were no cosmic tennis sneakers, but the sun, lying late on the city, had a liquid solidity in its slant beam across the tenements' crenellations that was different and pleasant. A little after blue smudged away the day's terminal salmon and gold, I watched a glimmering scarlet fire engine, highlit with the streetlights' change from red to green, screeching north on Hudson Street, become a galumphing dragon—though what was far more significant than the banal metamorphosis was that it was the saddest dragon in the world; and when she had passed, her wailing done, and the siren had reasserted itself on the autumn night, my lips were open, my breath was a quiet roar in my mouth's cave, and the tears rolled down my cheeks.

At Dirty Dick's I met Marilyn. She grinned at me. "How are you doing?"

"Fine."

"You look like you're having a wonderful time!"

I tried to smile benignly.

Later, the light came on above the jukebox. The police-

"Then, an immense  
turtle crawled up..."

man came in. The dancers drifted back against the wall. Then, the empty dance floor itself split in two. The halves rolled asunder, and, from the revealed darkness, an immense turtle, big as a double bed, crawled up from the fundament of the world, waddled down the aisle beside the bar stools, to the door, and—after the policeman—went out. Then the floor rolled together once more.

The jukebox resumed; and with infinite cool, the dancers moved out over the resealed boards to begin their gyrations, not deigning to comment on the depths I knew their steps now rhythmically covered.

The next morning I awoke in bed with a little red-headed fellow—we were in his apartment somewhere in New Rochelle, he told me. My memory is only of the night's intense, almost Herculean sex. But all that morning, as he made me coffee, as we showered together, as he gave me the money to take the train back down to the city, he kept telling me, "You were describing the strangest things last night—when we were coming up here, I mean. You were really saying some weird stuff. Man, that was some of the strangest stuff I'd ever heard about. I didn't understand most of it. But it sounded so..." (It was not getting high that was the sixties; rather it was this kind of reaction to it.) Fortunately—for you, for me—I don't remember any of what I'd said.

I'd given Terry one of my six author's copies of *The Jewels of Apor* when it first appeared. (My mother got another. And the other four...?) Now I gave her a copy of *Captives of the Flame*. The next Wednesday evening I walked, with Marilyn, across Fourth Street to the narrow coffee shop on Third between Macdougall and Sixth Avenue, the Cafe Elysee, that Bill and Terry were now managing. We passed the Night Owl on the far corner, and

started down the block. "What's that?" I asked Marilyn.

She laughed. "I think Terry must have decided to do some advertising."

On a four-foot black placard, set in front of the cafe and turned to face any tourists wandering from Macdougall, were attached Terry's copies of *The Jewels of Apor* and *Captives of the Flame*. Lettered above them in white was:

SINGING TONIGHT!

THE AUTHOR OF

followed by the two books, fixed to the plaque, with curly white lines around them, AND printed neatly between. Lettered below, boldly in white, was:

SAMUEL R. DELANY!

It all looked very incongruous—if not mindless. But as we stepped inside the narrow space, where the candles on the small tables had not yet been lit, Terry said, "Don't say it. I know—but we have to make do with what we got. I figured it was just weird enough that it might get a couple of people to come inside."

"It's your place," I said, and put my guitar down.

Billy was sitting at one table, laboriously writing something out with a ball-point on a folded piece of paper. When I glanced over his shoulder, he looked up. "A guy called Bob Dylan was in here earlier; he wanted to know if he could sing tonight. Since we don't have someone for a second set, I said sure." Billy got up and I went with him outside, while he squatted in front of the placard and, with two bits of Scotch tape, below my grandly lettered name, added the piece of paper on which, from maybe three feet away, you could just make out:

AND BOB DYLAN

I'd actually seen Dylan perform once in a small, group concert up at Riverside Church at which my friend Ana had also sung. His harmonica and guitar performance had been charming, energetic, and wholly and classically traditional. And among the audience of forty-five or fifty people that had turned out for the tiny auditorium space that held, perhaps, seventy-five, there were clearly about ten or twelve who were particularly enthusiastic about him, and had come specifically to hear him—among the dozen-odd performers that afternoon—and for whom he was clearly playing.

Billy and I went back inside. Billy stepped up to the performance area, with its single chair in the skew spotlight, and tapped the mike. There was a slight booming outside above the door, where the speaker projected the sound into the street to attract the warm-weather tourists.

When there were any.

As of yet there were no customers.

"You can go on and do a set, just to put some sounds in the street," Billy said. "Don't kill yourself. I just like to hear you play."

"All right," I said. "Lemme just get a glass of water," and I stepped in back of the counter, at the small sink filled a cylindrical glass with water, handed it to Marilyn, expecting her to drink and hand it back to me so that I could take a drink. But instead, she just held it.

So I started to get another glass for myself.

Just then the door flew open, and a breathless young man, in a denim jacket and on the fleshy side, rushed in with his guitar case, plopped himself down in the performance chair, bent to open the case, and pulled out his guitar. Pushing on a couple of steel finger picks, he plucked two, five, half a dozen notes—

"Hey," Billy said, "wait up there—"

I'd recognized the midwestern youth from the Riverside concert as Dylan.

"Now look," Billy said, "I told you you could sing, but we got another performer who's supposed to go on first."

Dylan shook his head, stood up, and said something I couldn't hear.

Terry stepped up beside Marilyn and me.



What altercation over later hours, further appointments that had to be kept, or requests for schedule changes went down I don't know, because just then a passing fire engine set off a yowl of feedback in the microphone. Billy silenced it with a cupped palm.

Dylan picked up his guitar and, a moment later, they were again talking by the door.

"... well, then, don't come back!" Billy said, at last, a little loudly, a little flustered.

And with his case, Dylan rushed out the door as breathlessly as he'd come in.

Shaking his head, Billy put his hands on his hips, looked at us, and really said, "Bob Dylan! Who does he think *he* is ...?"

Then he went outside, squatted before the placard. Through the glass door, I saw him tear off the taped-up paper strip.

In that age when popular music did not speak for its young people, folk music occupied a position hard to explain today. The people who went out into the mountains and forests of America (or, indeed, any other country) to collect it were scientists—anthropologists. The people who learned it and sang it, as close as possible to the traditional manner in which it had been sung by the people who made it up, were dedicated artists. (And the possibility that I might spend my life as a fine folk musician, performing in folk clubs, giving concerts, and making albums, was as exciting to me as the possibility of being a great writer or a physicist.) At the same time, you could write your own—about anything you wanted.

Two years later Dylan was to make a revolutionary cross-over, when he decided that the American youngsters who bought millions of pop music records a month were just as much "folk" as the banjo-twangling miners of Appalachia, and electrified his music, not in an exploitative gesture to make folk music acceptable in suburbia (that had been done many times before), but rather to create a music that spoke for people who simply had been allowed no voice till now by a culture engine that drummed only banal love lyrics into the ear twenty-four hours a day. The result was that American music—folk and pop—would never be the same.

But the idea that the author of *The Jewels of Apor* and *Captives of the Flame* once, as a singer, had his name in substantially larger letters above Bob Dylan's—even for five minutes—has always made me smile.

I woke to sirens, rolled in the sweaty sheets of the persistent Indian summer—I remembered no scheduled test. Just then, outside the apartment, a jet snarled somewhere on the sky. Could that be the plane with the bomb, I thought, idly. Lying there, I got chills—and immediately tried to reason them away. This was the sort of coincidence, I thought (blinking at the dull window), that can ruin a good day.

Then the window filled with yellow light.

I leaped from the bed, taking the sheets with me. My throat cramped, my heart exploded in my chest, while I watched gold fire spill window to window down the tenement across the street.

The fireball!

The thought quivered beyond the pain in my body that, in each of its parts had gone, individually, into terror. The light's here now, I thought. The shock and sound will arrive in four seconds, five seconds, and I will be dead...

Four seconds, five seconds, seven seconds, ten seconds later, I was still standing there, trying to think of some place to hide.

The clouds, in coincidence compounded, had simply pulled away from the sun. The plane was gone. The little electric clock on the bookshelf said noon. The siren—

which, of course, went off at that time every day—lowered its pitch, softened its whine, and ceased.

That was the month, of course, of the Cuban missile crisis. Over the days of the event, newspaper and radio—we had no television—were filled with nothing else. History has remembered the event as one of Kennedy's successes that somehow compensated for the embarrassment of the previous year's Bay of Pigs invasion. But what the American public lived through was an anxious week when, yet again, World War III seemed momentarily imminent.

On the day of the special U.N. session, Marilyn and I were visiting at my mother's where, indeed, we watched the special session, running on all channels, with most of New York City, with most of the country.

At the U.N., the United States would speak. Russia would speak. And Cuba—the country at the center of the dispute—would speak. All the major TV channels were covering the sunny afternoon's proceedings at the same time—as, indeed, were most radio stations. Perhaps because we owned no television ourselves, when Marilyn and I came into my mother's apartment to hear the coverage we turned on the radio out of habit.

“That evening, I cut the  
hard brown buttons with  
their bitter, inner tufts into  
small pieces. Then I  
swallowed them down with  
most of a quart bottle of  
beer...”

A small educational station, Riverside Radio, was giving its report on the all-day goings-on at the United Nations.

"You know it's on television too," my mother said; so I turned on the TV in the corner. The sound coming from the radio and the TV speakers—the opening remarks by the Secretary General—was identical, so there was no reason to turn the radio off.

We settled down on the couch to watch and listen.

The U.S. ambassador to the U.N. made his statement. At the end there was a shuffling of papers; a few people coughed.

CBS switched, after a few moments, to a news analyst, who gave a minute or two of commentary on the U.S. statement, while on the radio behind us, the noise of coughing and shuffling continued in the Security Council Hall, until the Secretary General stepped to the podium to introduce Ambassador Valerian Zorin from the U.S.S.R.—and once more the sound from the TV speaker and the radio speaker became congruent.

The Soviet ambassador made his statement. The translator's words came over the Russian, like a vague ghost, leading to the halting English version, through both the speaker behind us and speaker before us. The statement was greeted with a similar silence, similar shufflings, similar coughs. Once more CBS cut to a news analyst; and once more the radio simply overlaid it with shufflings and coughings and the sounds from any large meeting hall between activities. (On the radio, now, an announcer's voice, with the timbre of adolescence, came on to identify the station, once more, as Riverside Radio.) When the Secretary General resumed the podium, a minute later, again the speakers' sound became one. The Cuban ambassador was introduced. In Spanish, he began to talk.

continued on page 77





*Plantlets at SSSC under a combination of 400 watt HPS and MH lamps. The plantlets were grown in 3-1/2 inch rockwool cubes placed about four per square foot. At SSSC, the plants are put into flowering immediately after rooting.*

## NO SWEAT

*continued from page 59*

### WHAT WATT TO USE

Fluorescents do not emit much light at either six inch end of the tube, so 4-foot tubes will support a garden three feet long. Eight-foot tubes will support a garden 7 feet long. It is hard to fit more than two tubes per foot of width in a space. This is a minimum amount of light required to maintain a decent growth level and to produce nice buds. A fluorescent uses about 10 watts of electricity per linear foot. Two tubes per foot of width uses about 20 watts of electricity per square foot (counting the unuseable space at the end of each tube).

Top lighting, at best, produces fair flowering. With additional side lighting flowering is increased. For instance, a closet 8' x 3', a total of 24 square feet, could use six 8-foot fluorescents on top. During flowering, the lights should be supplemented with four 8-foot fluorescents hung at the far side of the garden at the

bud height. Four foot tubes could also be placed at either end of the garden.

Gardens should be lit by a minimum of about 20 watts per square foot of growing space using HID lamps. Lower wattage lamps are less efficient than high wattage so gardens lit by them should get about 25 watts input per square foot.

### CO<sub>2</sub> AND AIR

In order to use the light energy shed on the leaves, the plants require adequate supplies of CO<sub>2</sub> and water which are the chemical ingredients in the equation. In a closed environment such as a closet, the CO<sub>2</sub> is quickly used up. Once that happens, photosynthesis stops until the CO<sub>2</sub> is replenished. There are two basic ways to do this. A good ventilation system will replace the used up oxygen very inexpensively.

Plants have the ability to photosynthesize at much faster rates than they ordinarily do. Their metabolism is slowed by the quantity of CO<sub>2</sub> available in the environment. When the amount of CO<sub>2</sub> in the atmosphere is increased, the rate of photosynthesis and ultimately their growth rate increases. Their time to maturity is decreased substantially.

CO<sub>2</sub> can be injected into a closed growing area using a CO<sub>2</sub> tank equipped with a regulator. The regulator units cost between \$100 and \$200. This is no small amount of money, but it increases the growth rate by 30-40%, as compared with a well ventilated space, and by a much higher rate than a closed space.

The tanks come in 20 and 50 lb. capacity sizes. The 20 lb. size is much more convenient to move than the 50, which weighs 170 lbs. The tank and regulator can be located outside the growing room with just the tube carrying the gas inside. Most units use no electricity. The ones which do, use a minimal amount.

Usually the atmosphere has about .05% CO<sub>2</sub>. This can be raised to about .5%. Figure on injecting an ounce an hour when the lights are on. You can make a cheap CO<sub>2</sub> system using sugar and yeast (see HIGH TIMES September '87).

### THE GROWING MEDIUM

Most people do not realize that they have been growing plants hydroponically

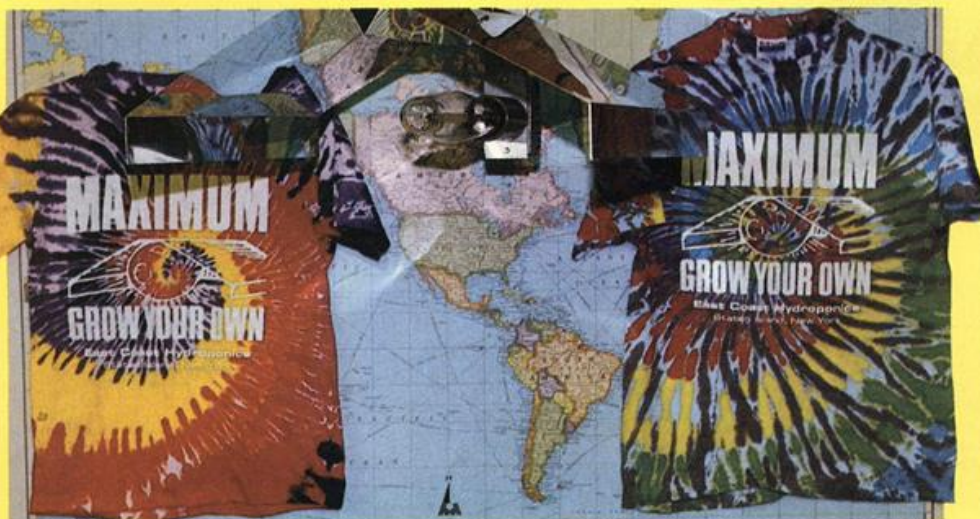
*continued on page 73*



# PRODUCTS

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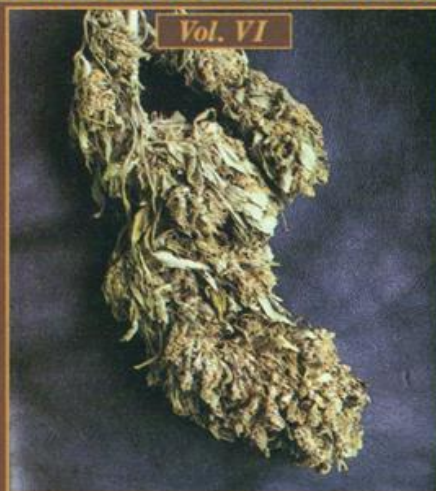
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# ASK ED

continued from page 58

Dear Ed,

Many interspecies hybrids are sterile; they cannot produce offspring. Is this true in the case of cannabis? Are cannabis hybrids sterile?

Thanks for the help,

—Bud Intensive

Oshkosh, Wisconsin

Most researchers think that all cannabis varieties are part of the same species. Although the varieties may have some differences in the way they look or in their growing habits, genetically they are very similar. There has never been a problem in getting viable hybrid seed and fertile hybrid plants from marijuana crosses.

Dear Ed,

Would it be possible to isolate and clone the genes responsible for THC production and produce the substance in a nutrient bath?

—Unsigned

U.S.A.

The rule in genetics is one gene/one enzyme. In other words, each gene is responsible for the production of one chemical. The production of THC is the result of a number of genes which produce different chemicals which each play a part in the production of the end chemical. Scientists think that the pathway to THC begins with olivetol, which is converted to cannabidiol, which is converted to THC.

Typically, all of the genes associated with a series of interactions that produce a chemical such as THC are found on one chromosome. Once the genes associated with these reactions are mapped, they can be removed from the cell and placed in another organism such as a yeast or bacteria. When the genes expressed themselves in their new host organism, they would start producing THC. Since yeast and bacteria are both relatively easy to culture and since they have a rapid rate of metabolism and production, harvests would take days to produce.

● I welcome comments, tips, and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed, HIGH TIMES, 211 E. 43rd St., New York, NY 10017. Also send entries for the Bud, Plant, and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book, **Marijuana Growers Handbook, Indoor/Greenhouse Edition**.

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## DR. INDOORS

continued from page 60

from corner to corner to allow a 24 hour light cycle, while the main buckets are on a 12 hour flower cycle. This will allow you to grow several batches of clones and to put several small plants per bucket. You could have six to eight main bud stalks in each bucket. That way you can harvest every 60 days, instead of every five months. If you get rid of the buckets and enter the hydroponic age, you can grow more, with better results. With a mini-trellis, the buds can grow heavy and not fall over. You could harvest 40 main tops instead of five and harvest a total of 200 main tops each year.

Dear Doc,

My room is 5'x4'x6'. In it I use four 150 watt HPS lights horizontally mounted. It has good ventilation and the walls are flat white. My confusion is about what to grow my plants in. I don't know if I'll buy the Dansco Hydro Cell II, the SGS Europonic system, the Good Buddy system, or some other hydroponic system. Please give me some advice. I think your magazine is great.

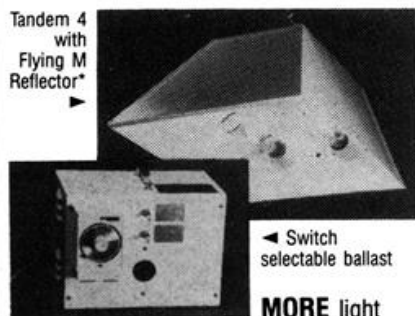
Mr.P

Judging from the size of your room, a Dansco Hydro Cell II might be too much system for the area. Their basic unit, the Hydro Flo I, would fit better. It covers a 4'x5' area, leaving some room to move around the system. The Good Buddy system will also fit your needs. Both allow you to remove individual plants without disturbing the rest of the garden. The Dansco system seems to give the most grow area for the space. The SGS is another possibility, for it effectively uses the space in a complete rockwool system. All three are completely different in how they work. You have to decide for yourself which system meets your needs. I would suggest that you contact each company and get information about their systems. Compare, then pick the one that is most appealing to you. I can't recommend one system over the other. There are many systems available. Check them out. Soon Dr. Indoors will compare the systems available, side-by-side, and discuss the pros and cons of each system.

In one of my previous columns someone mentioned Grorox in their letter and I told them what to do about the pH. I did not mean to imply that Grorox is a bad product. Grorox is a tradename of a grow medium by Diamond Lights. Please do not ask me to pick one hydroponic system over another. Address all questions about indoor growing to Dr. Indoors, HIGH TIMES, 211 E. 43rd St., N.Y. NY 10017 ●



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# BEST!

# NO SWEAT

continued from page 68

for years. When a plant is placed in a container it starts to grow using water and CO<sub>2</sub> and various nutrients which the roots absorb. After a while the nutrients in the soil are used up, plant growth slows, and the plant may show deficiency symptoms. Then fertilizer is added to the water and the plant starts to thrive again. When the fertilizer is added to the water, the plant was fed hydroponically. The soil acted as a non-nutritive medium which held both water and the nutrients mixed and dissolved in the liquid.

The only difference between formal hydroponics and the soil in the container is that the hydroponic medium started off with no nutrients and the soil's was used up.

Hydroponics is easier than soil to set up and just as easy as soil to maintain. Although you have probably read material that tells you how hard it is to grow hydroponically, you will find that it is the easiest way to grow plants.

## THE MEDIUMS

Instead of growing with mediums composed of little particles, sand, stone, or compositional mixes, you will be growing with substrates. These are composed of a single block of material or layers of material. Here are the ones you should consider:

**Foam Rubber**, four inches thick. You can get scraps from a dealer or cut up a discarded foam mattress. Foam does not absorb water the way other mediums do, so it can only be used in the hand watering method.

**Floral Foam**. This comes in bricks at florist supply houses.

**Rockwool Blocks**. Available from hi-tech garden supply companies. Make sure to buy only the blocks. The loose stuff is dangerous to work with since it is composed of filaments similar to the pieces found in glass wool. Always wear rubber gloves when working with the material.

**Upholsterer's Foam**. Comes in various thicknesses. The material is very light fibred. It can be rolled up and tied to make the size container desired.

All of these materials are inexpensive, very lightweight (both wet and dry), and need no containers, since they are solid pieces. They require little prep time. To remove any chemicals that might be left over as a residue of manufacturing, the floral foam and foam rubber should be washed with a dishwashing liquid and thoroughly rinsed so that none of the detergent stays on the material. To start, the pieces of material should be about four inch squares.

Regular mixes. These systems can

continued over

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# NO SWEAT

*continued from previous page*

also work using regular potting mixes that are available in garden centers. One popular formula is one part each vermiculite, perlite, peat moss, compost or earthworm castings.

## THE SET-UP

There are three ways to set this system up as far as watering goes: either of two low-tech automatic systems or hand watering. Using hand watering, you will have to water the systems once a day to start, and after they get going they may need water twice a day. Upholsterers foam does not have enough mass to hold a lot of water and should be used in the automatic system only.

With the hand watering system, all that is required is a tray for water to drain into, the growing substrate and a watering can. Set the growing cubes on the tray and water them each day. The most convenient size tray to use is a dishpan tray. It is deep enough to hold the cubes without spilling water and the trays are a convenient size to hold and move around.

The automatic systems are easy to set up. They both require trays, a watering can, and the grow cubes.

## THE WICK SYSTEM

Just as water travels up the fibers of a tissue, water will travel up any of the grow cube materials. It also travels up braided nylon rope. First a piece of 3/8-inch braided nylon rope is pushed into the substrate leaving a long tail that will hang down to the bottom of the tray. This is easily done with floral foam or rockwool. Then the cubes are placed on bricks or plastic inside a dishpan tray so that they are raised about three inches from the bottom. Fill the reservoir to just below the bottom of the cubes. Once they are wet, the cubes will draw water from the reservoir through the rope.

## THE RESERVOIR SYSTEM

The reservoir system eliminates the rope and brick. The cubes are placed in the tray. Water is added to a depth of 2 1/2 inches. A bubbler attached to a small aquarium pump aerates the water in the tray. When the water in the tray falls to one inch, the tray is refilled. If you are using several trays, a gang valve will distribute the air to several bubblers.

## PH

PH for our purposes is a measure of the acid/alkalinity balance in the solution. This is important because plants can absorb nutrients best when the pH is between about six and seven, slightly acid

*continued on page 77*

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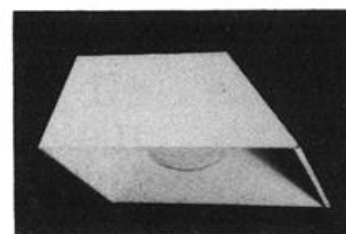
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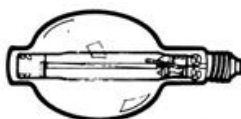
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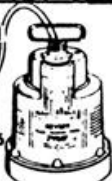
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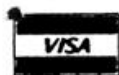
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# LETTERS

continued from page 28

## MORE ALTERED STATES

In regard to Mayhem's "Altered States" letter (October '87), there are certain vitamins that will move you up and down while tripping. Anyone who takes LSD should have vitamin C (ascorbic acid) and Niacin (a member of the vitamin B family). Vitamin C plays two important roles when used for LSD. First, vitamin C is found in the adrenal gland and helps produce adrenaline. This accounts for its "boosting" effect with LSD. Second, vitamin C works in the liver to help detoxify foreign substances, such as strychnine. This explains why one does not feel run down after a trip. Niacin (aka nicotonic acid) is important for terminating trips, especially bad ones. Niacin is used to decrease confusion, perceptual changes, and anxiety. It is a standard treatment for schizophrenia. It should be taken in doses of .5g and increased as needed after a half-hour. Niacin also increases the effects of tranquilizers, i.e., 20 mg of Valium with niacin equals 50 mg of Valium alone.

—Sun Dog

Sarasota, Florida

## THRASH PLEASE

Loved Michael Weldon's article on splatter 'zines. Did you ever think about doing articles on hardcore and thrash bands and 'zines?

—Rodney

Carbondale, Illinois

## HELP!

Is there a publication called *Narcotics Agent* that lists the new 1988 drug laws for all 50 states?

—The Growers of Pennsylvania and New Jersey

**Send your gripes, questions, personal thoughts, and occasional compliments to: HIGH TIMES "Letters," 211 East 43rd Street, NYC 10017. Unless otherwise indicated, proper names are printed with initials only to protect the innocent, so sign your favorite pseudonym.**

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# NO SWEAT

*continued from page 74*

to neutral. When the pH varies from this range, some nutrients become unavailable to the plant, slowing growth or causing deficiencies. PH can be measured using inexpensive meters, using chemicals, or with pH paper. It can be adjusted using commercial pH adjusters (liquids) available at hi-tech growing stores.

## FERTILIZERS

Plants can adapt to a wide range of nutrient conditions. The main thing is that they get enough nutrients, but not so much that the concentration is toxic. Most hydroponic fertilizers formulated for vegetative growth will support active growth during the first part of the growing cycle. Start them off at 1/4 recommended strength and gradually build up to full strength by the end of 2 weeks.

## PLANTING

Choose seeds from a good quality sinsemilla type plant, buy seeds from Holland, or get cuttings from a grower who is doing well. Place a seed in each cube about 1/4 inch deep and turn on the lights. In a few days the seeds should germinate.

## MAINTENANCE

Once the seeds are planted, little remains to be done except for raising the lights every day or two. Fluorescents should be kept at about four to six inches from the plant tops, and HID lamps about 1-2 feet away. The lights should be kept on 24 hours a day until the plants are ready to flower. Although some people think the plants need rest periods, this is a myth which has been shown in controlled experiments.

The water should be changed every week to two weeks. When the water is changed, add new fertilizer. When water is added between waterings, it need not have nutrients, but should be pH adjusted, if need be. Once a month, clean out excess nutrients from the cubes or containers by rinsing them with clear water. Then add fertilized water to the plant holders.

## FLOWERING

When the plants are about one foot high, at about two weeks to one month of age, the light should be put on a timer so that it is off for 12 hours and on for 12 hours. This causes the plant to respond to "fall" and start producing flowers. The plant actually measures the dark cycle so it is important that the dark period not be interrupted by light.

Marijuana usually produces male and female flowers on separate plants. In order to produce sinsemilla (seedless female flowers) they must remain

*continued on page 87*

# The Motion of Light

*continued from page 67*

In English, the translator followed him. There was a very different feel to the Cuban's speech. It seemed far less peremptory. He spoke of U.S. atrocities committed regularly against his country. He spoke of his country's unsettled position, geographically close to one great power, ideologically closer to a more distant one, and the huge experience of risk this created across his island. He spoke of the pain and death of the 1961 Bay of Pigs invasion, to which the recent buildup of Soviet missiles in Cuba was (partially) a response.

The body of his speech over, he leaned back from the podium to take a breath—

And something happened I'll never forget.

CBS, the major television channel on which we were watching the U.N. coverage, again cut to a live news analyst, who began to explain that the Cuban ambassador had just said more or less what was to be expected, full of emotion, but without content.

Meanwhile, on Riverside Radio, the ambassador, after his breath, clearly had leaned forward again, to continue speaking. The translator ended his pause and continued translating. The actual speech came to a close perhaps half a dozen sentences on. Beyond what the TV audience heard, it ran on another—oh, a minute and a half—possibly two. Confused, though, I'd already gotten up and begun switching TV channels, to see if any of the TV stations were staying with the U.N.—as the FM radio behind me was. On channel after channel I stared at, and listened to, the same analyst, talking calmly, as if, indeed, the Cuban ambassador's speech had reached its conclusion just like the other two. All the networks shared the same picture.

Behind me, on the radio, the Cuban's speech actually ended—and I heard a sound.

It was applause—the applause of the Security Council and the whole audience. Neither of the two other ambassadors had received any such ovation. It was applause that rose, over the first two or three seconds, to a volume to equal that of the traffic on the industrial avenues in the city just before noon. The applause came on and on. There were shouts of approbation in it. I have been in theaters and know the difference between the sound of an ordinary ovation and the sound of a standing ovation. And I will tell you, though I did not see it, in the Security Council of the United Nations, as they applauded, people stood.

On TV, on all channels available, the analyst went on (do I add, in memory, a vague sense of flusteredness to his words, as if he had not been prepared to start as early as he had, and he had been still making notes, considering what he was to say, when he'd been directed to go on—now?); but what had happened was that someone, sensing what the reaction to the speech would be, had decided that the American people should not see the Security Council audience go wild with support for Cuba, and so had made a decision, given a direction, and the Cuban ambassador's speech had been truncated before its end and the analyst had been purposely brought in to obliterate both the ending to the speech and the overwhelming reaction to it among the delegates from the rest of the world.

I suspect whoever did this still thinks of himself as a hero.

I suspect many who saw it or abetted it finally convinced themselves that it was, at best, an unimportant snafu, since the major information had, in fact, been given.

I suspect if it was ever questioned, excuses of time and programming were given, and, however absurd the excuses sounded, heads were shaken and the thing was more or less internalized, repressed, and forgotten.

But it remains one of the most direct and terrifying manipulations of the media I have ever seen. ●



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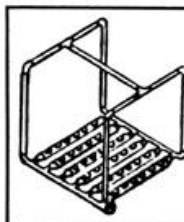
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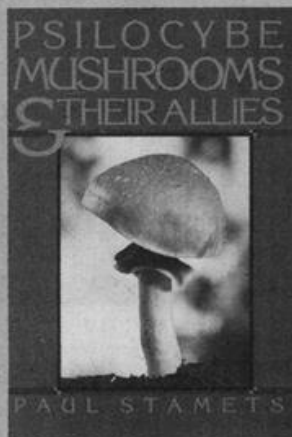
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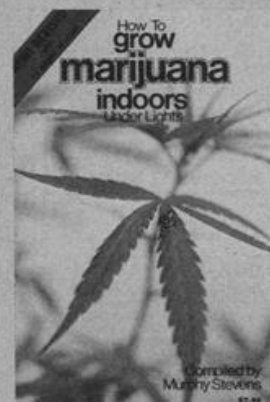


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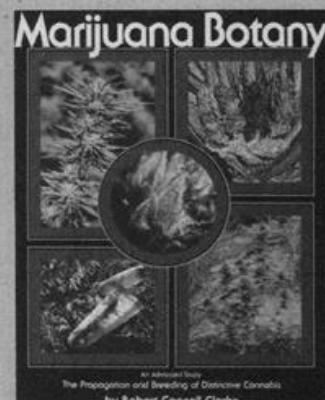
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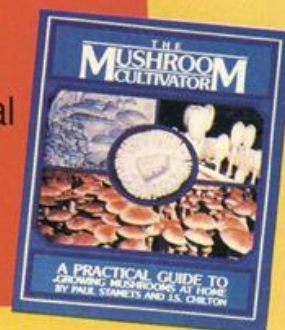
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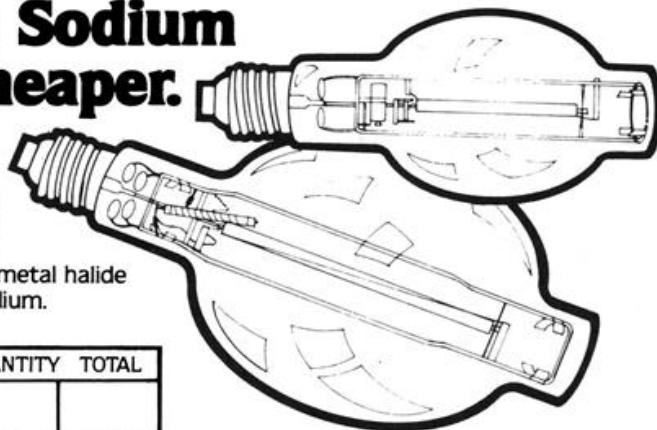
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# NO SWEAT

continued from page 77

unfertilized by pollen from male flowers. Once in a while male and female flowers are produced on the same plant. This plant is called an hermaphrodite. We are looking only for a few good females. Flowers from both the male and hermaphrodite plants can fertilize a female. When the males and hermaphrodites indicate, they should be removed from the garden, leaving only females. About half the plants will indicate male. This will open up the garden and give the surviving plants more room.

At the same time that the light is changed the fertilizer formula should also be changed to one that promotes flowering. A formula high in phosphorus, which plants need for profuse flowering, will increase the yield. These formulas are available through hi-tech grow stores.

Within four to eight weeks depending on variety and growing conditions, the plants should be filled with sticky buds ready to be harvested.

## SMALL TIME CURING

Take the branches and trim the outer leaves. Then trim the smaller leaves not directly covering the bud. Leave the bud leaves on to protect the glands on the flowers. These leaves have many THC bearing glands. Some people enjoy them in a water pipe.

If you have a small harvest put all of the buds in a brown paper bag in a cool space (about 60-65 degrees) until the buds are dry enough to smoke. Open the bag once a day to let fresh air in. In humid areas keep the bag open while drying. Larger amounts can be dried on a small rack constructed inside of a cardboard box. A wire hanger often serves the purpose.

## RESTARTING

When the plants have indicated sex and are just starting to grow buds, you can take cuttings (clones) from the surviving plants. These can be rooted in water or in one of the substrates and will form the basis for your next crop, an all female clone crop. The cuttings should receive at least 16 hours of light per day, although they would root and grow faster under a constant light regimen. Once the flower garden is harvested the new plants can be placed inside.

If you kept notes, you would know which buds were the best and which plants yielded well. Based on this information, it is easy to figure out which plants are the best to grow. By taking cuttings only from preferred plants, you can grow only the best and upgrade the quality and yield of the garden. ●

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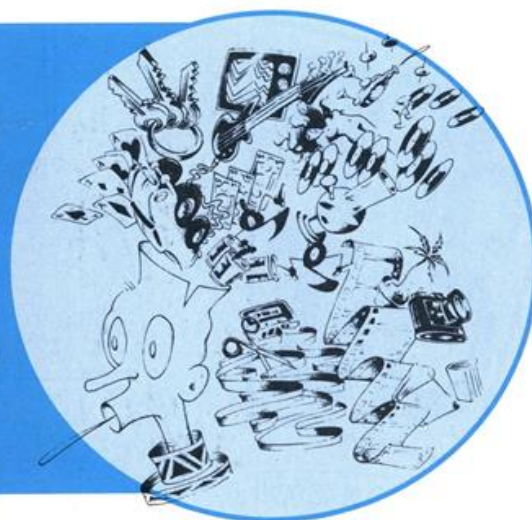
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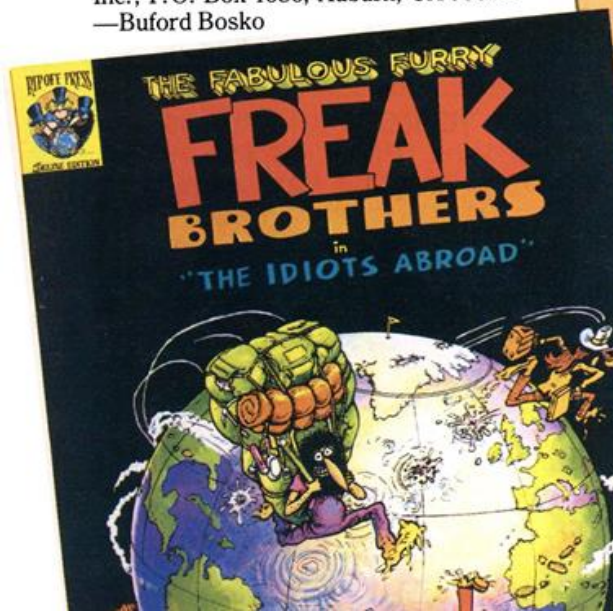
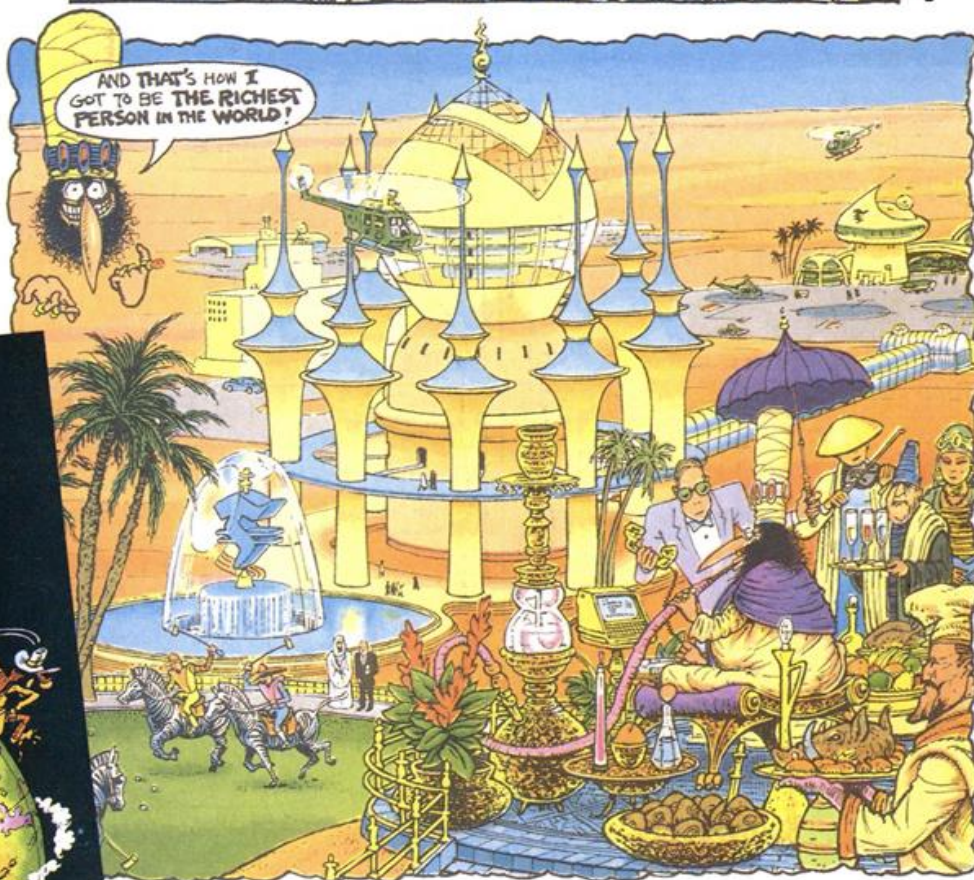
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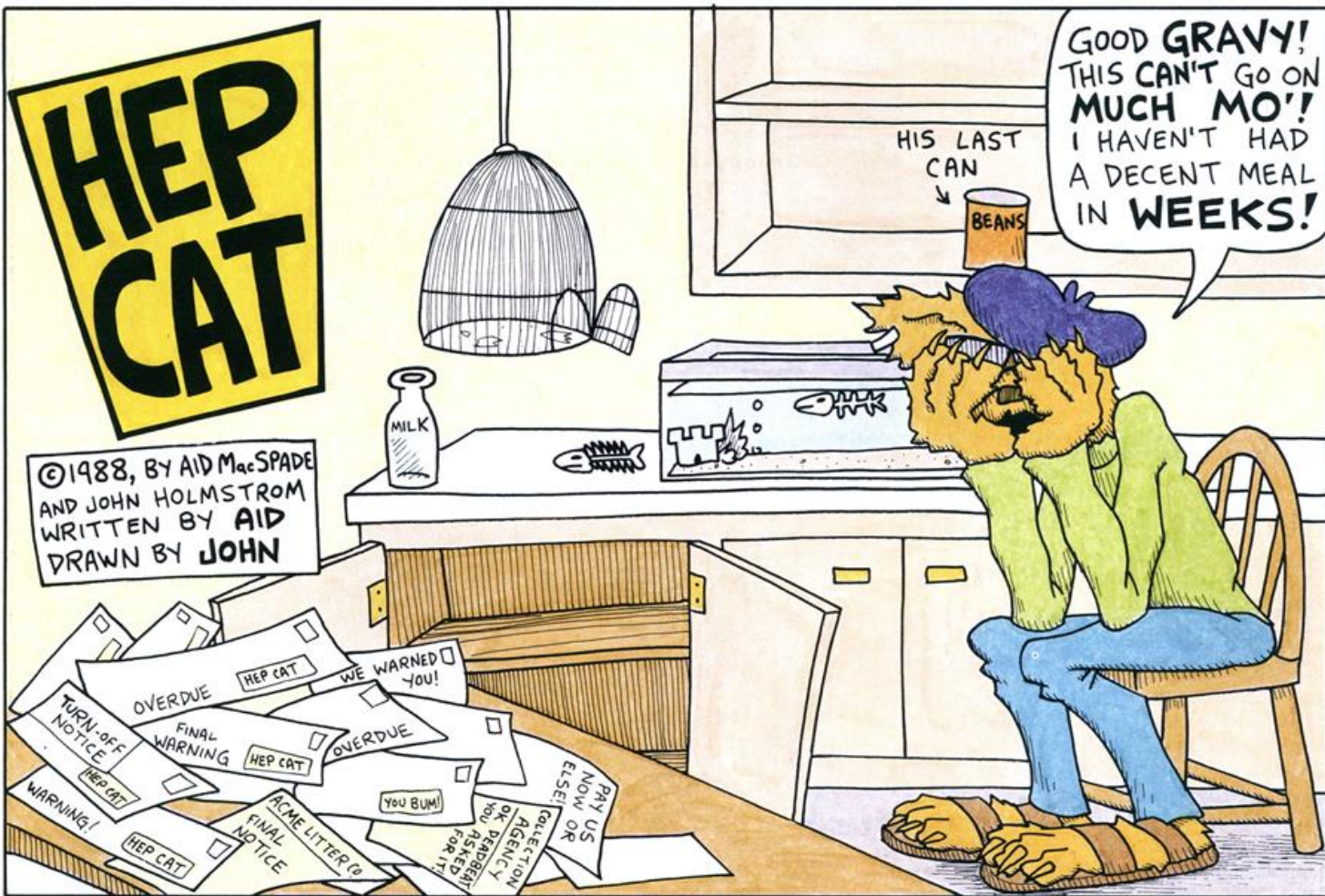
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BATH TIME, SNOOKUMS! TIME TO CLEAN UP FOR YOUR APPOINTMENT!

MEE-YOW!!  
WHAT'S THIS  
BATH SHIT?



ARE WE READY TO GO, SWEETIE? MUSN'T BE LATE!

NOT BAD, HEP! A REAL DIAMOND CHOKER! HA!



COME ALONG, SWEETUMS! WHOA! THIS IS A CLINIC! DON'T SHE KNOW I HATE NEEDLES??



OH, WELL! IT'S ABOUT TIME I HAD A PHYSICAL, ANYWAY!



LATER ON...

SO, I FIGURE ALL THIS IS WORTH IT- AS LONG AS I'M LIVIN' IN THE LAP OF LUXURY! I GOTTA ADMIT, THO'- NEEDLES SCARE ME TO DEATH!!



TEE HEE! YOU THINK YOU'RE HERE FOR THOTS? LITEN, BIG BOY! I FELL FOR THAT WUNTH MYSELF!



WHAT THEY REALLY DO ITH PSST PHT! TEE HEE! THEN



PTHT TSP ST SPTH "FIXED" TS TSP "CUT OFF YOUR



KITTY! COME BACK! OH, DEAR ME!



AHH! THERE'S NO PLACE LIKE HOME! SWEET EMPTY HOME!







## GO-GO Girl of the month

### Kim McAuliffe

Kim is the lead singer and founder of Girlschool, the best all-female heavy metal band in history. That may not be saying much, since almost every single all-female rock group from Fanny to the Runaways has sucked, but Girlschool is hotter than most all-guy rock groups!

Their sixth album, *Nightmare at Maple Cross*, is great. Critics have raved about it to the point where they claim it blows the doors off the latest platters from Motorhead, Motley Crue, the Ramones, Def Leppard, Guns N' Roses, Faster Pussycat, Poison... well, you get the point.

When Kim rang up the HIGH TIMES offices to talk to us about being Go-Go Girl of the Month, I asked her what her idea of a dream date would be. She started talking about the Superman movie where "Clark Kent would take me up to the top of the Statue of Liberty and seduce me." Then I asked what kind of guy she goes for. "All sorts," she said. "Very tall, dark, and handsome with a hairy chest. And lots of money." (That left me out, that's for sure.) Then she added, "Preferably Steve Martin. He's lovely. I haven't seen too many like him though."

Kim also mentioned that they're good friends with Lemmy and the rest of the Motorhead crew, and tour with them occasionally. If you get a chance to see Girlschool live (or Motorhead, for that matter) do it—you won't be disappointed.





MICHAEL OCHS ARCHIVES



**MC5—the band that ate together, slept together, fucked together, and broke up together.**

## THREE CHORDS OF BRUTALITY

by James Marshall

Back in the early '70s, when nobody thought rock'n'roll could get any worse, a lot of teenage mutants around the country spent their time holed up blasting discs by The Stooges and the MC5, awaiting the holy grail of punk rock that would deliver us from Frampton and disco a few years later. It was a loose network of maladjusted cretins, who communicated through fanzines like *Back Door Man* and *Denim Delinquent*, traveled thousands of miles (at least I did, by thumb when I was too young to even drive), to catch the Stooges on their final tour, and dreamed of a future when it would all be three chords of brutality.

Now it's the late '80s, and rock'n'roll is almost a memory. Reminds me of geezers who get together to play dixieland on weekends, the idea of something like "School's Out" topping the charts is almost inconceivable, and as I write this (mid-winter '88), I think maybe the Sex Pistols were rock'n'roll's death rattle. I dunno, but those Stooges and MC5 discs that got me through similarly bland times in my teens sure sound right nowadays. So let us backtrack historically, shall we...?

The Detroit-Ann Arbor area of the early '60's had one of the most fertile punk scenes in the country. Local stars included hitmakers Mitch Ryder & the Detroit Wheels, the Amboy Dukes (featuring crazed guitar idiot Ted Nugent) and such local hotshots as The Fugitives, The Underdogs, The Pleasure Seekers (a great all-girl band led by Suzi Quatro), The Motor City 5 (later the MC5), ? and the Mysterians (transplanted Chicanos), Terry Knight & the Pack (later the nucleus of Grand Funk), the Last

Heard (led by Bob Seger), the Prime Movers, The Iguanas (featuring Iggy Pop on drums) and dozens more. Local labels like Hideout and A-2 could record these bands and get them on local radio, even get the occasional national hit, like The Rationals' rave-up of "Respect", a '66 chartmaker on A-2.

By '67, things were changing. No longer content to grind out "Gloria" and fueled by the radical politics of John Sinclair and the White Panther Party (who adopted the MC5 as their house band), the Detroit sound grew looser, meaner and louder. With the Grande Ballroom as the main venue, the MC5 and the Stooges (led by Iggy Pop, who took up the mike stand and gathered up the remnants of a particularly trashy garage band, the Dirty Shames) led the way towards a violent new musical future, which would last only a few short years but whose reverberations are still felt today. The big break came in '68, when Elektra A&R man Danny Fields signed both bands. The MC5, who had already cut two singles for local labels (both can be heard on the excellent ROIR cassette compilation *Babes In Arms*) had gotten increasingly political—having bought Sinclair's radical politics lock, stock, and shotgun barrel. Their first LP, recorded live at the Grande, *Kick Out The Jams*, is a classic of screeching anti-social heavy metal frenzy. Opening with a crazed rap from preacher J.C. Crawford, they blast originals like "Kick Out The Jams" and "Borderline", re-work Sun Ra's "Starship" into a psychedelic death trip, grind through a politically relevant rendition of John Lee Hooker's "The Motor City Is Burning", and embrace their own punk roots by trashing the Troggs' "I Want You" with amps pushing towards the 11 notch.

Unfortunately, the youth of America were busy embracing the good vibes C S N & Y were spreading, and had no use for a vision of America overrun

by machine gun-toting hippies. The liner notes by Sinclair, and the word "motherfucker" on the disc, caused it to be banned by many stores—including the big mid-west chain Hudson's. In response, the 5 took out an ad in the Detroit Free Press that read *FUCK HUDSON'S*. Elektra used it as an excuse to drop them. Sinclair was soon sentenced to a few years in the pokey for the "crime" of two joints, and the MC5 were set adrift.

They signed with Atlantic, where they recorded two fine, if flawed, LPs: *Back In The USA*, released in 1970, (and sabotaged by Jon Landau, the man who would later foist Springsteen on us), and *HIGH TIME* (1971). They toured Europe, then broke up amidst personal (err... drug) problems and mass indifference. A live set, recorded at a small club in Detroit in 1972, *Do It* (Fan Club), captures them at the end—potent—but lacking the fire.

The Stooges, who were even more wild-eyed, fared better. Too uncontrollable even for John Sinclair (their only politics being the destruction of everything in their sight), they recorded a first LP, *The Stooges*, for Elektra under the supervision of former Velvet Underground member John Cale. Standing at the crossroads of '60's punk and destructo-metal, they began their career with two-chord anthems to teenage nihilism like "No Fun", "Little Doll", and "I Want To Be Your Dog", later to become standards for any punk group, circa 1977.

They toured America, blasting cross-legged hippies off the floor, as lead singer Iggy would hurl himself into the audience, bash his teeth with the mike, cut himself with bottles, and while the whole country watched on national TV, walk across an audiences' hands like a punk Jesus, gleefully leading the lemmings off a cliff.

Their second Elektra LP, *Funhouse*  
*continued over*





## Kentucky Derby May Day Mega-Jam!

By Chef Ra

It's the biggest, baddest party in the spring—Kentucky Derby Day in Louisville, Kentucky. Your Cross-Cultural Adventurer Chef Ra is on the scene, cookin' up the best party favors for all the fans. This year, May 7th is the date for the "Run for the Roses" at Churchill Downs. There are two types of races that I love, horse racing and turtle racing. Maybe it's because of my need for "Libran" balance—the slow and the fast. But the turtle racing will have to wait another month. Right now it's time to check out the ponies.

I guess I love the Derby not so much for the betting, but for the "gathering of the tribes." Hippies, old and young, rich and poor, black and white, rednecks, rubbernecks, rejects—all gettin' HIGH TOGETHER!! HIGH TIMES veterans from around the world gather to smoke, drink, and consume mass quantities.

To start the Derby Eve Party Weekend, every year Chef Ra puts on his psychedelic roller skates and races down a huge hill, covered from head to toe with flashing multi-colored lights!! The locals just "Freak-Out" when they see Ra flashing through the night—Hell, they think it's a UFO!!

When I reach the bottom of the hill, I skate over to a campfire surrounded by all my friends, and begin to cook the big pot of my favorite "Extra-Terrestrial Gumbo". After the communal dinner is finished, we sit around the fire and tell stories, laughing the night away in our "Gumbo Altered States"!!

### Extra-Terrestrial Gumbo

4 cups boned catfish (Sub: any firm white fish)  
1 sliced red bell pepper  
1 sliced green pepper  
2 cups canned tomatoes  
3 cups cooked okra  
1 cup of cooked yams  
1 bunch of broccoli  
1/2 cup of chopped scallions  
1/2 cup of chopped onions  
3 tablespoons fresh chopped parsley  
1 tablespoon of thyme  
5 cloves minced garlic  
1 teaspoon red pepper  
1 tablespoon fine gumbo powder  
1 teaspoon of paprika  
1 small hot pepper

### Gumbo Mixture

1 cup of boned Yard Bird (chicken)  
1 pound shrimp  
2 dozen oysters or crab  
1/2 cup peanut oil  
5 tablespoons of flour  
3 cups of cooked rice

Place the catfish and the Gumbo Mixture in large 5-8 quart pot. Heat mixture, saute in their own juices. Brown flour and onions in oil in separate skillet. Add onion, flour, and oil to Gumbo Mixture. Then add 3 quarts of water, all of the above spices and veggies to the pot. Bring Gumbo to a slight boil. Boil for 30 minutes, then lower heat and simmer for 15 minutes. Serve over rice. Serves 5-10 people.

In keeping with Creole cooking traditions, you can add many different kinds of meat to the Gumbo Mixture. But, in keeping with Chef RA's cooking chemistry, you shouldn't use the "Gumbo Mixture" if you want to use the "Gumbo" to get HIGH, because it will block the ganja's effect. So go with the veggies and stay HIGH.

Since there are so many ingredients in the Gumbo, the ganja can get lost in the pot. Instead, mix the ganja in measured doses to each plate of food. Cook ganja over low flame in 1/4 cup of peanut oil for 10 minutes. Add "Ganja Oil" in measured amounts to each plate. It's time to get spaced—OUT!! ●

## THREE CHORDS

*continued from previous page*  
(recently re-issued on CD!), delivered on the promise in the most uncompromising way. It's the most brutal LP ever recorded; a murky aural swamp of distorted guitars and bloodthirsty screaming. The Ig pulls no punches this time out—"I'm dirt... and I don't care": goes the only ballad, a seven minute dirge that leaves the listener with frazzled nerve endings.

The Stooges toured more, bringing in a former Prime Mover on second guitar (Ron Asheton later switched to bass when Dave Alexander died in '72), and wrote new songs "Fresh Rag", "Black Like Me", "Asthma Attack" and others deemed unrecordable by Elektra, who dropped them in 1971. Despite a small but rabid following, they broke up in 1972, the final straw being drummer Scott Asheton totaling the equipment truck into a low bridge ("Yeah... they got out of the hospital and went back to the accident scene and started crawling around in the bushes, looking for their little bags of heroin..."—Ron Asheton).

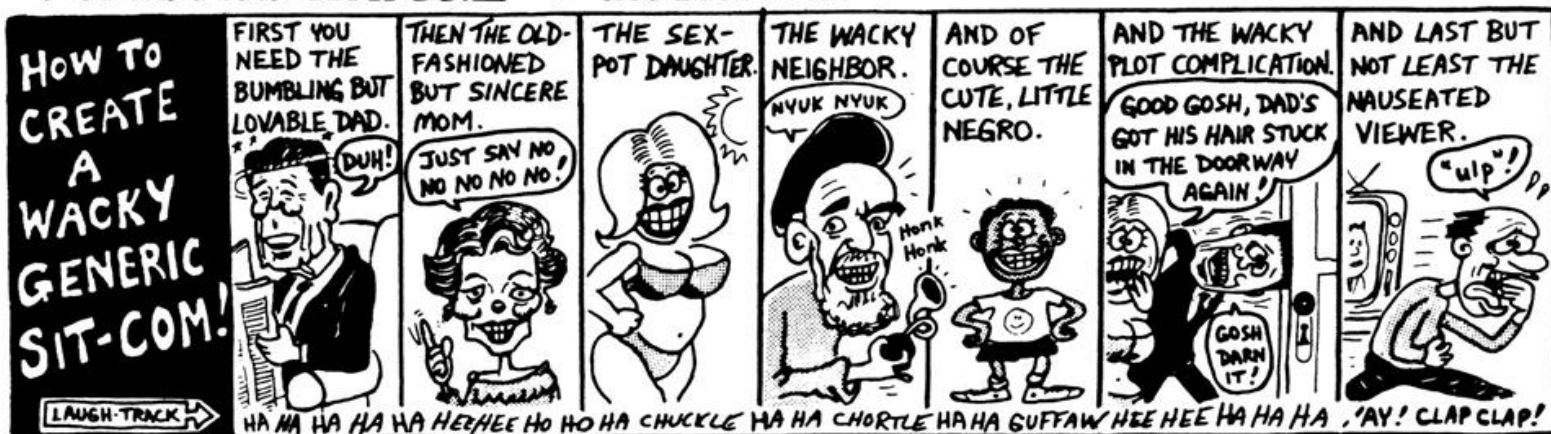
Nineteen seventy-two brought another shot for the Stooges, who had a powerful ally in David Bowie (guess he's good for something). He had his Mainman management sign Iggy and got a large advance from Columbia. Sent to England to record a third LP with a new lineup, they spent months in the studio producing *Raw Power*.

It was as if a rock'n' roll band was dropped into a Viet Nam fire fight with a stack of Marshall amps. Songs like "Search and Destroy", "Gimme Danger", "Penetration", and "Death Trip" burned with a glaring hatred for everything (mostly with Iggy's self-hatred). This is the white man's Robert Johnson, only this time, loud enough to puncture ear drums.

Unfortunately, things went wrong almost immediately. Iggy & the

*continued on page 96*

## TWISTED IMAGE by Ace Backwords @MSS







FROM THE BOOK "THE FILMS OF RONALD REAGAN"  
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PUBLISHED BY ARRANGEMENT WITH LYLE STUART.

"And here are our files on Wild Weed," says Ronald Raygun, showing *The Green Goddess* the top-secret map to Dope Island.

## WE MADE REAGAN WHO HE IS

by Michael J. Weldon

When history records the Reagan years it will detail 96 (!) months of life under our oldest president, a man with bad hearing and a worse memory, who slept on the job and helped lower the standard of living for the majority of Americans. We'll remember with disbelief his embarrassing public errors and contradictions, and marvel at his record for least number of press conferences, highest cuts in federal programs and world's biggest military build-up at the expense of an ailing nation.

How did this unqualified bungler become leader of what used to be the most powerful country in the world? Could his landslide election victories have been based on the great job he did as governor of California? No way. Those votes must have been based on "The Great Communicator's" stature as an actor. People are usually judged by the company they keep. Since so many of Ron's close political allies and appointees have been fired, disgraced, jailed, fined or indicted, nobody thinks he made good judgments picking who he worked with in politics.

I think his appeal must be largely based on who he shared screen time with during his ('37 to '64) acting career. Since Reagan acted in 53 features, he starred opposite, or acted with, a lot of people. Many of them have been forgotten over the years, but when I look at his filmography some names just leap off the pages. I like to imagine Ron and Nancy in the private White House screening room enjoying some of these choice titles, all featuring actors who Ron worked with. I find relief thinking about Ron talking to some of these old Hollywood buddies in person and discussing the merits of these films. It makes my day to picture Reagan dreaming about the time he shared a sound stage with Ted Healy (shortly after the comedian

had stopped bashing Larry, Curly, and Moe around). I wish I could interview our 77-year-old almost ex-president and find out what Huntz Hall and Leo Gorcey were like, if Hugh Beaumont was really as nice and wise as he seems, and what a great role model Errol Flynn must have been.

I'd ask him how far he got with Rhonda Fleming, how he enjoyed Jack Elam in *WILD WEED*, and if Russ Tamblyn just said no. (If you need to know what movies these chosen celebrities were in with Ron, look for **RONALD REAGAN: THE HOLLYWOOD YEARS** (Citadel) which should be piled high on bookstore remainder tables any day now. It's important history.)

**CLAUDE AKINS** (a.k.a. Sheriff Lobo)—*MONSTER IN THE CLOSET*, *THE CURSE*, Poli-Grip ads ("Ouch!"). **MORRIS ANKRAM**—*THE GIANT CLAW*, *RED PLANET MARS*, *THE BEGINNING OF THE END*, *ZOMBIES OF MARA TAU*, *HOW TO MAKE A MONSTER*. **EDDIE ALBERT** (a.k.a. Oliver Wendell Douglas)—*THE DEVIL'S RAIN*, *YES, GIORGIO*. **EVE ARDEN** (Our Miss Brooks)—*GREASE II*, *UNDER THE RAINBOW*. **HUGH BEAUMONT** (a.k.a. Ward Cleaver)—*THE MOLE PEOPLE*, *THE HUMAN DUPLICATORS*. **SCOTTY BECKETT**—*MAMA'S LITTLE PIRATE*, *MIKE FRIGHT*, *HONKY DONKEY*, other "Our Gang" shorts. **BRUCE BENNETT**—*TARZAN AND THE GREEN GODDESS*, *THE ALLIGATOR PEOPLE*, *FIEND OF DOPE ISLAND*. **PAUL BIRCH**—*QUEEN OF OUTER SPACE*, *NOT OF THIS EARTH*, *BEAST WITH A MILLION EYES*. **JOHN CASSAVETES**—*INCUBUS*, *DEVIL'S ANGELS*. **VIRGINIA CHRISTINE** (a.k.a. Mrs. Olson on Folgers coffee ads)—*THE MUMMY'S CURSE*, *BILLY THE KID VS. DRACULA*. **STEVE COCHRAN**—*THE*

*BEAT GENERATION*, *I, MOBSTER*. **BRODERICK CRAWFORD** (a.k.a. Chief Dan Mathews, "10-4!")—*HELL'S BLOODY DEVILS*, *GOLIATH AND THE DRAGON*, *LOOK WHAT'S HAPPENED TO ROSEMARY'S BABY*. **NANCY DAVIS** (a.k.a. Dragon Lady)—*DONOVAN'S BRAIN*, guest on *DIFF'RENT STROKES*. **ANGIE DICKINSON** (a.k.a. Pepper)—*BIG BAD MAMA II*, *CHARLIE CHAN AND THE CURSE OF THE DRAGON QUEEN*. **JACK ELAM**—*WILD WEED*, *CANNONBALL RUN II*. **ESTELITA**—*JESSE JAMES MEETS FRANKENSTEIN'S DAUGHTER*. **GENE EVANS**—*SHOCK CORRIDOR*, *THE DEVIL TIMES FIVE*. **NORMAN FELL** (a.k.a. Stanley Roper)—*STRIPPED TO KILL*. **ERROL FLYNN**—*CUBAN REBEL GIRLS*. **STEVE FORREST**—*MOMMIE DEAREST*, *PHANTOM OF THE RUE MORGUE*, *AMAZON WOMEN OF THE MOON*. **ARTHUR FRANZ**—*BACK FROM THE DEAD*, *ATOMIC SUBMARINE*. **COLEEN GRAY**—*THE LEECH WOMAN*. **LEO GORCEY** (a.k.a. Slip)—*THE BOWERY BOYS MEET THE MONSTERS*, *SPY CHASERS*, *DIG THAT URANIUM*. **LEO GORDON**—*HITLER'S SON*, *KITTEN WITH A WHIP*. **CLU GULAGER**—*NIGHTMARE ON ELM ST. II*, *RETURN OF THE LIVING DEAD*. **HUNTZ HALL** (a.k.a. Satch)—*GAS PUMP GIRLS*, *SPOOK CHASERS*, *HOLD THAT HYPNOTIST*. **MYRON HEALY**—*JUNGLE MOON MEN*, *THE UNEARTHLY*, *THE INCREDIBLE MELTING MAN*, *CLAWS*. **TED HEALY**—*SOUP TO NUTS*, *BEAR AND PRETZELS*, other Three Stooges shorts and features. **DARRYL HICKMAN**—*THE TINGLER*. **OSCAR HOMOLKA**—*MR. SARDONICUS*. **ROBERT HORTON**—*THE GREEN SLIME*. **RUSSELL JOHNSON** (a.k.a. The Professor)—*ATTACK OF THE CRAB MONSTERS*, *BLUE MOVIES*. **JACK KELLY**—*CULT OF THE COBRA*, *SHE DEVIL*. **ARTHUR KENNEDY**—*DON'T OPEN THE WINDOW*, *THE TEMPTER*, *THE SENTINEL*. **PIPER LAURIE**—*CARRIE*, *RUBY*, *DISTORTIONS*. **VIVECA LINDFORS**—*THE HAND*, *CREEPSHOW*, *SILENT MADNESS*. **FRANK LOVEJOY**—*I WAS A COMMUNIST FOR THE F.B.I.*, *SHACK OUT ON 101*, *HOUSE OF WAX*. **DOROTHY MALONE**—*ABDUCTION*, *THE BEING*, *THE DAY TIME ENDED*. **VIRGINIA MAYO**—*CASTLE OF EVIL*, *HAUNTED*. **GENE NELSON**—directed *HAND OF DEATH*, *HARUM SCARUM*, *HOOTENANNY HOOT*. **CRAIG STEVENS** (Peter Gunn)—*THE DEADLY MANTIS*, *ABBOTT AND COSTELLO MEET DR. JEKYLL AND MR. HYDE*. **RUSS TAMBLYN**—*SATAN'S SADISTS*, *FREE GRASS*, *WAR OF THE GARGANTUAS*, *CYCLONE*. **RICHARD TODD**—*THE LOVE-INS*, *ASYLUM*, *DORIAN GRAY*. **BILL WILLIAMS** (Kit Carson)—*THE GIANT SPIDER INVASION*, *SPACEMASTER X-7*. **ROLAND WINTERS** (Charlie Chan)—*THE FEATHERED SERPENT*, *THE CHINESE RING*. ●



# THREE CHORDS

continued from page 94

Stooges (as they were now called) waited almost a year for David Bowie to mix the LP, the frustrating wait sending several band members back to the spike. When he finally showed, Bowie mixed it in three days, throwing away much of the painstakingly recorded 24-track in the process. (Doesn't matter that much, it's still great, but a note to Columbia—I'm available to remix when you're ready to put out the CD.)

When the LP was finally released in 1973 to ecstatic reviews, the band hit the road sans any management or organization on a tour Iggy called "My blows against the empire". Criss-crossing America for a year and a half without rhyme or reason (or dispatching) found the Ig at his most self-destructive. At the New York club Max's Kansas City, he flopped bare-chested onto broken bottles. At the Academy of Music he fell face-first in the audience a dozen times. In several cities he got arrested, and at the Grande Finale in Michigan, he faced down an entire biker gang with a 55 minute version of "Louie Louie" before getting decked by a pledging member. Two nights later, said bikers returned to kill the Stooges—a night captured on the live disc *Metallic KO* (Skydog). They didn't kill them, but side two finds Iggy taunting an audience so hostile you can hear beer bottles flying onto the stage every two seconds. It is one of the most chilling records ever recorded.

It was also the Stooges' final gig. Iggy headed for L.A., where he found himself first in jail, then in a mental hospital, until once again David Bowie extended his cold, clammy hand in friendship to launch him on a successful Stooge-less career.

Other great documents of Stooges' history can be found on two new LPs: *I'm Sick of You* (line/Germany), a collection of Raw Power rehearsal sessions that includes the amazing "I Got a Right", and *Rubber Legs* (Fan Club/France), which finds the post-Raw Power band rehearsing some incredible new tunes for a never-recorded fourth LP. Special kudos to "Open Up and Bleed", Iggy's most tormented ballad ever, and "Pinpoint Eyes", a chilling heroin blues. By the time you read this, more Stooges material will be available via the Fan Club label (which just purchased six hours of tapes from Ron Asheton). A 10" bootleg of the pre-David Bowie Raw Power mixes will also be making the rounds.

They came, they went, they blazed a trail of destruction and nihilism, and for that I salute you—sons of Detroit. ●



by Jim Polling

"I like critics, I just feel better when they're not around," muses Mickey Rourke in *Barfly*.

## BARFLY (HBO/Cannon)

Lush life. Charles Bukowski adapts his cum-and-blood prose to the screen, and Mickey Rourke plays him like an open sore doing a W.C. Fields impersonation. Faye Dunaway's Wanda is a much more beguiling character: once-goddess floating on a booze cloud that hasn't yet fogged her notions of pride and glamour. It's a tipsy screwball fairy tale with good performances, but Alice Krige as a lofty admirer should never be allowed to open her mouth in front of a camera again. Directed by Barbet Schroeder.

## FULL METAL JACKET (Warners)

The best Vietnam movie and the best movie about war since Kubrick's own *Paths of Glory*. Lee Ermey, who served in Vietnam and as technical advisor on *Apocalypse Now*, virtually plays himself as a fanatical drill sergeant whose abrasive 20 minute litany opens the movie. Berserk to the point of being cosmic. Nancy Sinatra's on the soundtrack.

## BACK TO THE BEACH (Paramount)

Perfectly suited to video, this not necessarily awaited follow-up to the surf bunny pictures of the '60s is passable when it isn't trying too hard, but most of the humor is so weak you want to kick sand in its face. Annette Funicello plays herself (and sings with Fishbone), but Frankie Avalon seizes his role as though it were actually an acting job. Painful TV cross-references (Bob Denver and Jerry Mathers among them) and a ruinous rendition of "Surfin' Bird" by Pee Wee Herman.

## ASSAULT OF THE REBEL GIRLS (Fox Hills)

Known as *Cuban Rebel Girls* when released in 1959, this earnest glorification of Fidel Castro's campaign to wrest Cuba (filmed on location there) from Batista stars Errol Flynn in his last role. Politics aside, it was his affair with co-star/beautician/nymphet Beverly Aadland that aroused everyone's curiosity. Read all about it in the reissue of her mom's cheesy book "The Big Love".

## L'ANNEE DES MEDUSE (Euro-American)

A topless tart abuses friends, family, strangers and lovers on the Cote d'Azur in this erotic black comedy antidote to *Back To The Beach*. Awkward subtitles, but who reads that much at a nude beach? Very little happens, but there's an excellent performance from Valerie Kaprisky's breasts.

## THE CONFESSIONS OF BERNHARD GOETZ (MPI)

Surprisingly levelheaded account of one of the decade's most infamous criminal debates, the bulk of which is Goetz's videotaped confession, made days after he surrendered himself to the police for shooting four blacks on a New York City subway. Interviews with a victim's lawyer, the jury who acquitted Goetz and Bernie's own, quite logical, occasionally profane and coldblooded admissions. His complete, unsanitized version is something to see and hear. ●



HI! YOU'RE JUST IN TIME! A BIG MEETING OF THE TOP 100 CLUB HAS BEEN CALLED! JOIN IN! IT'S GETTIN' NUTS!

ANOTHER CONTROVERSY?

I'M TIRED OF THIS CONSTANT BICKERING!!

I JUST WANNA SEND IN MY VOTES, OK?

HEY! THIS IS IMPORTANT!

THE FUTURE OF THE TOP 100 IS AT STAKE HERE!

BIG DEAL!

WELL, SOME PEOPLE HAVE BEEN COMPLAINING ABOUT THE VOTING PROCEDURES!

#1  
ALMOST FIFTY DIFFERENT PEOPLE SENT IN FOR THE DEAD

#5  
A PETITION WITH ALMOST FORTY NAMES CAME IN FOR THIS VOTE

PETITIONS COUNT? I DIDN'T KNOW THAT!

#12  
ABOUT FIFTEEN DIFFERENT PEOPLE VOTED FOR THIS

#17  
MANY VOTES FROM A FEW DIFFERENT PEOPLE CAME IN FOR THIS

HOLY COW!

#24  
ONE GUY SENT IN 143 VOTES FOR THIS

WOW! THAT'S A LOT OF VOTES!

1. **GRATEFUL DEAD** (4)
2. **Pink Floyd** (1)
3. **SEX** (5)
4. **BONG HITS** (3)
5. 1. READING HIGH TIMES IN PRISON  
2. GETTING STONED IN PRISON  
3. FUCKING WITH CORRECTIONAL OFFICERS' HEADS
6. **SKUNK BUDS** (2)
7. **NORML** (6)
8. **ASK ED** (20)
9. **LSD** (9)
10. **LED ZEPPELIN** (12)
11. **BEER** (47)
12. **EL PRESIDENTE** (NOT RON REAGAN-MIKE!)
13. **'SHROOMS** (49)
14. **PEACE** (13)
15. **METALLICA** (7)
16. **HIGH TIMES** (14)
17. **I HATE THE GRATEFUL DEAD**
18. **HARLEY DAVIDSON** (58)
19. **Roger Waters**
20. **FREEDOM** (24)
21. **GRAVITY BONGS** (57)
22. **THE GANG AT ZZZ** (JOHN, CAROL, GEORGE, TONI, MIKE, SCOTT+DAN)
23. **WFMU** (AND BILL KELLY)
24. **CHRIS+GREG'S ULTIMATE PARTY HOUSE ON CHICAGO'S NORTH SIDE**
25. **HEP CAT** (60)

26. **THE LIBERTARIAN PARTY**
27. **GROWIN' YOUR OWN**
28. **Blow Jobs**
29. **SNOW BONGS** (45)
30. **ACID**
31. **AEROSMITH**
32. **SLUGS ON DRUGS** (U.C.S.C.)
33. **COFFEE**
34. **J.S. Bach**
35. **Jethro Tull**
36. **UNDER THE COFFEE TABLE**
37. **Wake 'n Bake**
38. **CHUCKY'S CHUNKY CHICKEN**
39. **IRON MAIDEN**
40. **BEING IN LOVE WITH TANIA** (NECKING IN THE GROW ROOM)
41. **Nitrous Hits**
42. **SURF-AY BUD-AY BEER-AY ALL DAY**
43. **Heavy Metal**
44. **BOB MARLEY AND THE WAILERS** (40)
45. **HUMMA DUBONGA**
46. **GETTING STONED IN THE BATMOBILE**
47. **LOVE**
48. **TRIPPIN' IN THE MOUNTAINS**
49. **Hank Williams, Jr.**
50. **Ski Stoned**

51. **TOM WALLER'S BONFIRE PARTIES**
52. **All-father Dilda Comics**
53. **MEGADETH**
54. **FREE DOPE!**
55. **WEEDHOPPER'S JOINT ROLLING EXPERIENCE**
56. **The Chesterfield Kings**
57. **LEGALIZE IT!**
58. **Julian Cope** (35)
59. **MARTIAN POT** (THE BEST!)
60. **THERE IS NO SUCH THING AS GRAVITY-NANCY REAGAN SUCKS ENOUGH TO HOLD EVERYTHING DOWN!**
61. **ART SPIEGELMAN** coming
62. **RAUNCHY, GUTSY, OLD-TIME ROCK 'N' ROLL** (OKAY, MARSHALL'S GOT A POINT!)
63. **The Teardrop Explodes**
64. **REFORMING THE MORAL MAFIA**
65. **USING HOT WATER IN MY BONG TO GET BIGGER HITS**
66. **THE MINNESOTA GRASSROOTS PARTY** (VOTE THE WAY YOU SMOKE!)
67. **Hendrix** (27)
68. **BEING FUCKED UP WHILE GETTING PICKED UP BY A UFO**
69. **JOINT PASSING AA MEETINGS**
70. **CHURCH LADY**
71. **USING OUR RIGHT AND RESPONSIBILITY AS AMERICAN VOTERS TO REGISTER AND VOTE**
72. **OPIUM**
73. **HARRIET CARTMELL** (THE MARIJUANA MAYOR OF MAYSVILLE, KENTUCKY)
74. **ZOE** (17)
75. **EMPLOYING THE POOR, HOMELESS SPIDER MITE PREDATORS**

76. **JOHN MAYALL**
77. 1. SLITTING NARC'S THROAT AND BALLS  
2. CUTTING OFF NARC'S COCK  
3. WAVING BYE-BYE AS NARC FADES TO BLACK
78. **YUCK FOU**
79. **PUTTIN' THE DEAD BACK IN FIRST!!!**
80. **SMASHING MY TV SET!**
81. **PRaise THE ALMIGHTY FOR HE IS THE GIVER OF HERB**
82. **MY PET SCORPION FIDO**
83. **BOND SALESMEN SMOKE DOPE, TOO!** (INVESTMENT BANKERS IS WHAT THEY CALL US!)
84. **KALIEDOSCOPE**
85. **GREEN MONKEY SLAVES THAT FLUSH YOUR TOILET**
86. **JUSTICE**
87. **THE ASSHOLE THAT SAID 'GRATEFUL DEAD SUCKS GREEN, SLIMY, DONKEY DICKS'**
88. **RON PAUL FOR PRESIDENT** (16)
89. **I MAY BE STONED, BUT I'M NOT STUPID!**
90. **NOSE HITS**
91. **SEX IS BETTER THAN DRUGS IF YOU KNOW THE RIGHT PUSHER**
92. **DR. INDOORS** (73)
93. **SLOWLY WRECKING YOUR APARTMENT BECAUSE YOU'RE GETTING EVICTED**
94. **THANK GOD IT'S FRY-DAY**
95. **THE ONLY PUNK BAND WITH ALL DRUMMERS-"YOW GIRL"**
96. **THE DUKES OF STRATOSPHERE**
97. **DOING ACID WITH RONALD REAGAN**
98. **EATING 31 MESCAL WORMS ON MY BIRTHDAY**
99. **HOWARD STERN**
100. **PASSING A COP ON THE HIGHWAY WHILE HOLDING DOWN THE JOINT... AND LAUGHING LIKE HELL!**

#76  
THIS GOT ONLY ONE VOTE!  
ONLY ONE?

#81  
THIS GOT ONLY ONE ALSO...  
HMM... IT'S EASIER THAN I THOUGHT TO GET A VOTE ON THE LIST!

#1  
LAST MONTH'S POSITION  
NOT REALLY! I HEARD WE GET OVER A THOUSAND VOTES EVERY MONTH!

IF A GUY SENDS IN 143 VOTES, HE SHOULD GET NUMBER ONE!!!

BUT THEN ANYONE CAN BUY THE TOP SPOTS!

YEAH! THE TOP 20 OR SO VOTES SHOULD STAY FOR THE MAJORITY!

HOLY COW! I HEARD ONE GUY WANTED TO SEND IN 50 VOTES WITH A JOINT WITH EACH ONE TO MAKE SURE HIS VOTES MADE THE LIST!

THAT COULD GET HIGH TIMES IN BIG TROUBLE!

HMM... 143 STAMPS EQUALS... \$31.46!!

COULDN'T THAT MONEY HAVE GONE TO NORML- NOT TO THE UNITED STATES POST OFFICE!

THAT'S WHY THE NORMLTHON WAS STARTED-SO BALLOT BOX STUFFER MONEY WOULD GO TO A GOOD CAUSE!

## NORMLTHON UPDATE!

AS I WRITE THIS, THE NORMLTHON IS JUST ABOUT TO GO ON SALE! WE'LL KEEP A TALLY OF HOW MUCH HAS BEEN RAISED. THANKS TO ED ROSENTHAL'S SUPPORT, WE'RE HOPING EVERYONE WILL PITCH IN TO RAISE MONEY+ MAKE THIS A BIG EVENT! DON'T WORRY- YOU CAN JOIN NORML THROUGH THE NORMLTHON! JUST SEND THE CHECK TO NORML TO THE HIGH TIMES TOP 100!

THIS MONTH'S TALLY: \$400.00

#1  
#2  
#3

WRITE DOWN YOUR CHOICES + SEND TO US!

SEND YOUR NORML \$, COMMENTS, + VOTES TO: THE HIGH TIMES TOP 100, 211 EAST 43<sup>RD</sup> ST. NY, NY 10017.



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2 year ballast warranty and 1 year lamp warranty

1000W Metal Halide .....	189.00
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Metal Halide Phosphor	
Coated Bulbs .....	add 5.00
175W Metal Halide .....	110.00
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400W High Pressure Sodium .....	189.00
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MS1000, 125,000 lumens .....	59.00
MS1000 Hor., 125,000 lumens,	
horizontal .....	69.00
MS400, 40,000 lumens .....	44.00
MS400 Hor., 40,000 lumens,	
horizontal .....	54.00
Metal Halide Phosphor	
Coated Bulbs .....	add 5.00
M175, 15,000 lumens .....	29.00

#### HIGH PRESSURE SODIUM:

LU1000, 140,000 lumens .....	69.00
LU400, 50,000 lumens .....	45.00
LU150, 16,000 lumens .....	39.00

#### HIGH PRESSURE SODIUM CONVERSION:

940W, 140,000 lumens .....	139.00
360W, 50,000 lumens .....	69.00

#### FLUORESCENT TUBES:

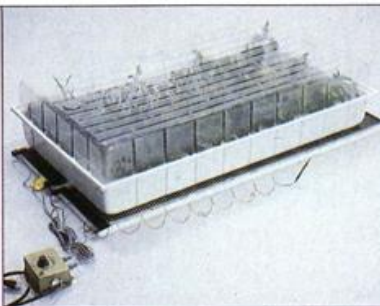
24" Gro Lux .....	7.95
24" Vita Lite .....	12.50
48" Gro Lux .....	9.95
48" Vita Lite, Power Twist .....	13.95

### ■ EBB-FLOW SYSTEM ..... \$39.00/Module\*



Includes: 44" x 24" Tray & Irrigation System

\* (Benching, Pump, Timer & Reservoir purchased separately)



### PROFESSIONAL PROPAGATION SYSTEM \$169.00

Includes: 1 - 44" x 24" x 11" Propagation Dome, 2 Pro Heat Mats, Thermostat w/ Remote Probe & 1qt Cloning Solution

### ■ REFLECTORS

(Polar white finish on all, sockets included)

22" Round .....	24.95
44" Conical .....	39.95
48" Parabolic .....	54.95
84" Parabolic .....	169.95
Horizontal HPS .....	49.95
Horizontal MH .....	54.95

### ■ LIGHT MOVERS

4" Light Track .....	99.00
6" Light Track .....	99.00
1LS Sun Circle .....	139.00
2LS Sun Circle .....	199.00
3LS Sun Circle .....	259.00

### ■ HYDROPONICS

**HYDRO-FLO I** ..... 265.00  
Incl: 6 trays, 36 one gallon pots, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Module ..... 16.00

**HYDRO CELL II** ..... 250.00  
Incl: 12 two gallon cells, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Cell ..... 6.00

### ■ TEST EQUIPMENT

Digital pH Pen .....	59.95
Digital Dissolved Salts Pen .....	59.95
Combination pH & Dissolved Salts Meter .....	399.00
Professional Digital Light Meter .....	175.00
CO <sub>2</sub> Tester .....	8.95
CO <sub>2</sub> Analyzer Tubes .....	4.50
MIN-MAX Thermometer .....	12.95
Temperature Humidity Gauge .....	12.95
30x Light Scope .....	26.95
100x Light Scope .....	49.95

### ■ CO<sub>2</sub> SYSTEMS

Injection System, w/o tank .....	179.00
Injection System w/ exhaust control, w/o tank .....	279.00
CO <sub>2</sub> Regulator/Flow Meter .....	79.95
DANSCO Propane Burner/CO <sub>2</sub> Generator .....	269.00
Johnson Propane Burner/CO <sub>2</sub> Generator .....	499.00

### ■ ODOR CONTROL

Zestron 700 Ionizer .....	79.95
Zestron 1000 Ionizer .....	79.95
Zestron Collector Ionizer .....	110.00
Zestron 3600 Ionizer .....	320.00
DANSCO Charcoal Air Filter .....	79.95
Ozone Generator for total odor removal .....	879.00

### ■ TIMERS

15A 120V, 24hr, Heavy Duty .....	19.95
15A 240V, 24hr, Heavy Duty .....	24.95
40A 120V, 24hr, Industrial .....	33.95
40A 240V, 24hr, Industrial .....	38.95
40A 120V, 1-60 minute cycle .....	67.95
15A 120V, 4 ON - 4 OFF, 1 minute min. ....	26.95

### ■ FANS & BLOWERS

100 CFM Axial Fan .....	25.50
240 CFM Axial Fan .....	57.95
560 CFM Axial Fan .....	59.95
60 CFM, Squirrel Cage .....	30.95
100 CFM, Squirrel Cage .....	38.95
140 CFM, Squirrel Cage .....	40.95
265 CFM, Squirrel Cage .....	45.95
465 CFM, Squirrel Cage .....	56.95
745 CFM, Squirrel Cage .....	112.95
980 CFM, Squirrel Cage .....	109.95
1450 CFM, Squirrel Cage .....	142.00
300 CFM, Duct Fan .....	44.95
425 CFM, Duct Fan .....	47.95
660 CFM, Duct Fan .....	51.95
9" Oscillating Table Fan .....	25.95
12" Oscillating Table Fan .....	35.50
16" Oscillating Table Fan .....	52.95
9" Wall Mount Fan .....	45.95
12" Wall Mount Fan .....	52.95
16" Wall Mount Fan .....	59.95

### ■ THERMOSTATS & HUMIDISTATS

Thermostat, heating or cooling .....	19.95
Thermostat, heating or cooling w/ remote probe .....	34.95
Humidistat 40 - 90% .....	47.95
Combo Thermostat-Humidistat Fan Controller completely wired with 2 outlets .....	109.95

### ■ SUBMERSIBLE PUMPS

120 GPH .....	36.95
140 GPH .....	38.95
170 GPH .....	39.95
205 GPH w/ float control .....	59.95
240 GPH .....	47.95
1250 GPH .....	67.95

### ■ PROPAGATION AIDS

24" x 44" x 11" Propagation Dome .....	49.95
48" x 11" Pro-Heat Tape .....	21.95
Thermostat w/ remote probe ± 1° .....	69.95
Woods Rooting Compound .....	7.95
Rootone F, 2oz .....	4.49
Olivia's Cloning Solution, 1 qt .....	11.95
Olivia's Cloning Solution, 1 gal .....	39.95

### ■ ROCKWOOL

1 1/4 x 1 1/4 Multi-Blocks .....	.07
2 x 2 Multi-Blocks .....	.10
3 x 3 Cube .....	.34
4 x 4 Cube .....	.48
6" x 3' Slab .....	4.75
8" x 3' Slab .....	6.25
12" x 3' Slab .....	9.50
45lb Repellent Bale .....	28.50
35lb Absorbant Bale .....	22.00
55lb Absorbant Bale .....	49.00
Full case discount of 10% on Rockwool products	

### ■ REFLECTANTS

4' x 25' Mylar .....	17.95
4' x 50' Mylar .....	27.95
4' x 100' Mylar .....	44.95
20' x 100' White Visqueen .....	59.95



### SLAB SYSTEM ..... \$59.00/Module\*

Includes 3 - 3' x 8' Rockwool Slabs, Drip Irrigation System & Tray  
\*(Benching, Pump, Timer & Reservoir purchased separately)

### ■ BOOKS

Gardening Indoors .....	16.95
Beginning Hydroponics .....	7.95
Hydroponic Food Production .....	29.95
Rockwool In Horticulture .....	34.95

We also carry General Hydroponics, Suncor, WonderGrow and Eco nutrients and pH Control along with many other products. Complete price list available.



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  - MONEY ORDER
  - PERSONAL CHECK (MUST BE BANK PRINTED WITH THE SHIP TO ADDRESS. ACCOUNT MUST BE 6 MONTHS OLD. NO CHECKS OVER \$50.00. PAYMENT TO 20TH CENTURY DISTRIBUTORS)
  - C.O.D. (CASH ON DELIVERY) (PHONE IN ONLY) \$10.00 min.
  - ALL ORDERS IN US FUNDS
- Offers subject to change without notice. Take only as directed. Read all package statements, no sales to minors or where prohibited by law. The advertised products have various levels of non-controlled ingredients. O.T.C.'s Not to be Mixed with Alcohol.

#### NOTE

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### MILD (THIN)



1000 | 100  
\$17.50 | \$6.50  
CODE #9  
85 MGS CAFFEINE

### CLEAR UPS (THIN)



1000 | 100  
\$17.95 | \$6.50  
CODE #10  
25 MGS EPHERDRINE

### SURE CURE II DIET AID



1000 | 100  
\$35.00 | \$9.95  
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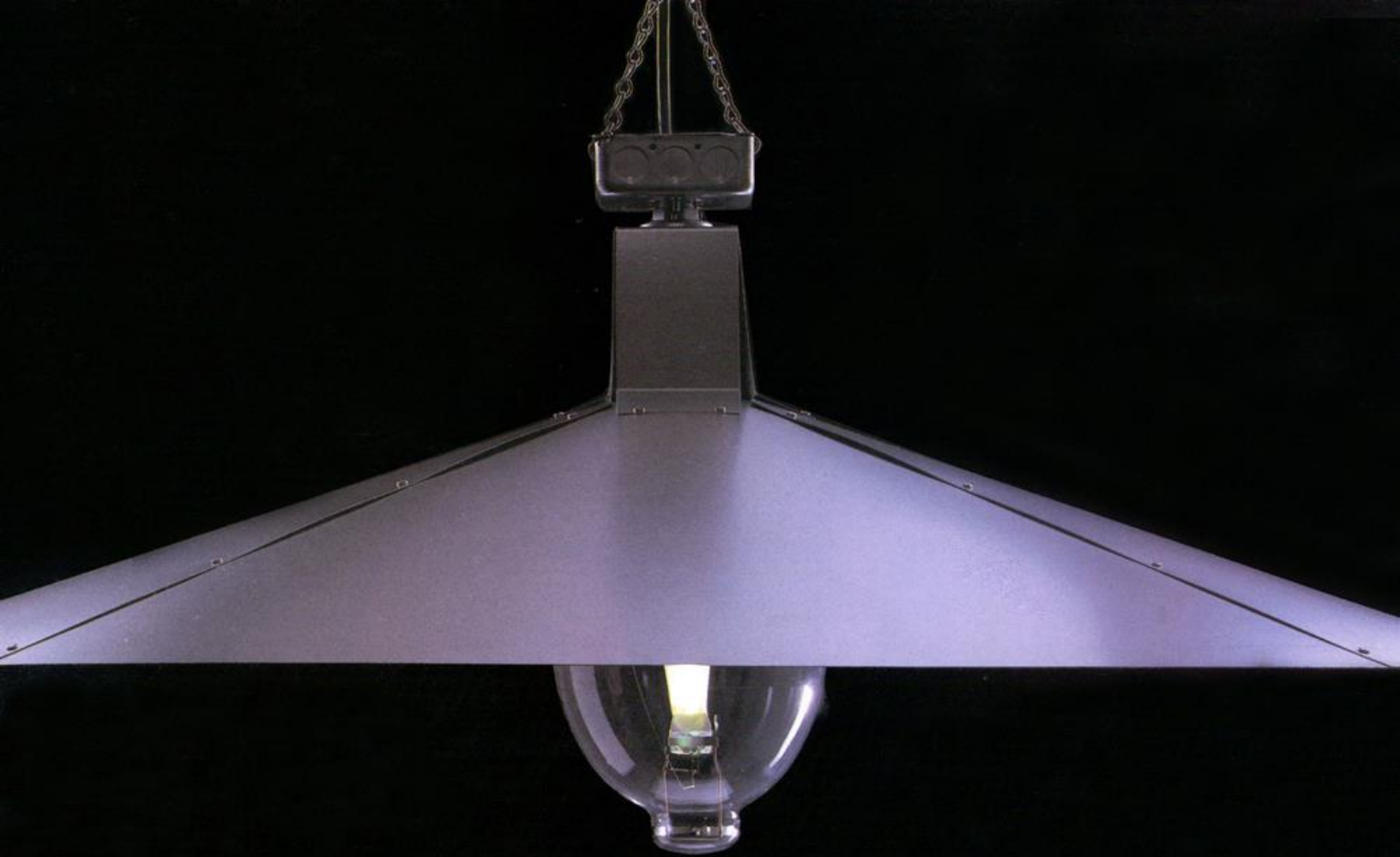
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JUNE 1988



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